CLASS OF 2023: BERTELSMANN DATA SCIENCE
ROTATIONAL PROGRAM

Full-time, Trainee Program // international // Bertelsmann // Job ID 256707 //
Salary: $80,000-$90,000

Job duties
- Design new data products and develop big data capabilities in order to address business model challenges and offer solutions
- Collaborate with international teams to drive usage and adoption of new data products and capabilities
- Use and further enhance machine learning methods and tools
- Understand and leverage new data sources and integrate traditional structured data with raw data from websites, social media and third parties
- Model and frame business scenarios that are meaningful and impact critical business decisions
- Support change within the organization

Job requirements
- M.S. or Ph.D. in a quantitative field such as Data Science, Computer Science, Statistics, Engineering, applied Mathematics, Physics or related topics
- Proven experience working with data science to develop innovative data products and capabilities in order to extract actionable insights
- A desire to constantly train yourself and hone your data skills within a business context
- Strong knowledge of machine learning methods
- Advanced knowledge of standard methods across the entire data science pipeline
- Solid programming skills in Python and R; additional programming languages such as SAS, Scala, Spark, C/C++ and/or Java are a plus
- Knowledge of databases, database concepts, database design and related languages / tools such as SQL, NoSQL, Hive, etc.
- Visual storytelling expertise is a plus
- Experience with mining massive data sets (ex. with Hadoop) is a plus
- Problem-solving mindset with strong relationship building, collaborative and communication skills
- Geographic flexibility; travel and relocation will be required, as projects are located throughout the world for the entire duration of the program
- Foreign languages are a plus
DATA ANALYST

Full-Time // New York, US // Bertelsmann, Inc. // Job ID: 219362 // Salary: $80,000-$90,000

Job duties

- Work closely with business stakeholders to understand and focus on their analytical needs.
- Interpret data, analyze results and build automated dashboards and reports (mostly in Power BI).
- Work with cloud databases (Azure/GCP) to gather, manipulate and visualize data.
- Deliver actionable insights to (1) drive business revenue, (2) increase productivity, and (3) automate processes.
- Keep up-to-date on new technologies and trends in data analytics and EdTech.
- Develop best data practices, to enable knowledge transfer among all portfolio companies. Collaborate with other Bertelsmann divisions, to foster cross-divisional learning.

Job requirements

- BA/BS in Data Analytics, Data Science, Business, Economics, Computer Science, or another technical field.
- Experience with data visualization tools (PowerBI, Tableau, etc.)
- Strong working knowledge of SQL.
- Strong problem-solving skills and intellectual curiosity and should be a self-starter.
- Ability to translate business requirements into technical action items.
- Ability to analyze and present complex information concisely.
- Effective written and verbal communication skills with both technical and business audiences.
- Work experience as a Data Analyst or Business Data Analyst.
- Expertise in database design development (data modelling, data mining and data segmentation).
- Experience with GCP and/or Microsoft Azure a plus.
- Experience with Microsoft PowerBI (Power Query M formula language) a plus.
- Experience in education a plus.
DATA ARCHITECT

Full-time // Morrisville, US // Relias LLC // Job ID: 249252

Job duties

- Working alongside product teams, product owners, data scientists, application architects, and other functional leads to effectively design the conceptual, logical, and physical data models encompassing the evolving enterprise data models
- Following microservices design principles, exploring the existing monolithic database and all data sources, designing and creating data models and blueprints to create a unified data strategy for monolith to microservices transformation
- Implementing modernized data architecture, metadata management, data quality, and leading the enterprise information and data integration strategy architectures
- Participating in enterprise architecture governance practice and activities (i.e., Architecture Working Group and Architecture Review Board)
- Serving as a data evangelist, being the subject matter expert of data governance and data management across the organization
- Working closely and collaborating with the product teams, engineering teams, and other internal business stakeholders in identifying data requirements by clearly articulating the transitional/target architectures and technical environments
- Analyzing existing application and services portfolios, assisting in the development and alignment of data architecture and strategy roadmap
- Conducting cloud data services architecture review/audit
- Maintaining a strong understanding of data technologies and best practices in data industry

Job requirements

- A minimum of 10 years of hands-on experience as an architect or technical leader for large-scale, cloud-based software products and platforms
- A minimum of 5 years as a data architect in a lead capacity
- 3+ years architecting and designing data solutions preferably built on Azure or GCP
- A minimum of Bachelor's degree in Computer Science or closely related field
- Industry experience in cloud computing design patterns and cloud PaaS offerings
- Hands-on experience and expertise in application, data, and cloud computing architecture and services, preferably Azure and GCP
- Must have architected applications using APIs, Event-Driven, and Microservice design patterns
- Knowledge of Container Orchestrators such as Kubernetes and Service Mesh infrastructure layer is a plus
- Experience with AI and machine learning is a plus
- Good to have Cloud Computing Certifications, preferably Azure and GCP
- Experience in working in a start-up environment and/or in healthcare industry is nice to have
- Cloud data services such as Azure Cosmos DB, Azure SQL, MongoDB, and cloud storage services
- Proven experience in NoSQL, relational (MS SQL, PostgreSQL are preferred), and in-memory databases
SENIOR SOFTWARE ENGINEER

Full-time // Morrisville, US // Relias LLC // Job ID: 235350

Job duties
- Full-stack software development on Relias’ learning platform
- Working closely with other developers, QA, and product owners on a highly functional agile team
- Leading and mentoring a team of junior and mid-level developers and test engineers
- Ensuring system health and fixing defects
- Solving difficult problems through research and innovation
- Contributing to the department’s wiki knowledge base

Job requirements
- A Bachelor’s degree, or equivalent experience
- 5+ years of .NET Core, C#
- 3+ year of a modern JavaScript framework (Angular, React, Knockout, etc.)
- 3+ years of SQL Server
- Experience with ASP.NET Web Forms
- Experience with Agile methodology
- Experience with Microsoft Azure
- Experience releasing software / knowledge of the SDLC process
- Passion for setting standards of system design and service-oriented architecture
- Ability to influence and lead team
- Desire to mentor associate and mid-level software engineers
- Strong communication and interpersonal skills
- Redis, Service Bus, Web API, WCF, ASP.Net MVC
- Familiarity with privacy and security best practices
- Passion for learning - remaining current on new technologies
- Desire for continuous improvement - determining process improvements, best practices, and develop new processes.
- Experience working in close partnership with cross-functional teams and management.
CLOUD ENGINEER (LINUX)

Full-time // Morrisville, US // Relias LLC // Job ID: 253941

Job duties

- Performing daily system monitoring, verifying the integrity and availability of all server resources, systems, and key processes. Reviewing system and application logs and verify completion of scheduled jobs such as backups.
- Ensuring application performance, uptime, and scale, maintaining high standards of code quality and thoughtful design. Employing exceptional problem-solving skills, with the ability to see and solve issues before they affect business productivity.
- Troubleshooting incidents, identifying root cause, fixing, and documenting problems, and implementing preventive measures.
- Developing and implementing technical efforts to design, build, and deploy cloud artifacts at an enterprise scale. Creating, maintaining, and updating documentation for standard operating procedures to support them.
- Working closely alongside the software development team for software releases.
- Working with the development teams to get an understanding of the application’s infrastructure requirements. Working together to identify and implement the most optimal cloud-based solutions for the company.
- Researching and recommending innovative and, where possible, automated approaches for cloud and system administration tasks.
- Designing and managing cloud infrastructure architecture in accordance with company security guidelines.

Job requirements

- 2 years of Linux Server Administration
- 1 year of Cloud Administration
- 1 year of Enterprise Networking fundamentals
- Associates Degree in IT, Computer Science, MIS, or equivalent work experience
- Linux OS
- Cloud Administration: GCP, Azure, AWS
- Web Administration and/or N-Tier Architecture
- Virtual Networking: Layer 4, Layer 7, and Web Application Firewall
- Git and Trunk Based Development
- Infrastructure as Code
- Pipelines: Azure DevOps, Jenkins, and Bitbucket
- Kubernetes and Containers (Docker)
- Scripting: PowerShell and Bash
- Understanding of the Software Development Lifecycle and Agile Principals
- Data Backup Procedures
- Storage Principles
ASSOCIATE, CONSUMER DATA & MARKETING AUTOMATION

Salary: $50,000-$55,000

Job duties

- Work with our CDP, ESP and a number of proprietary tools to provide day-to-day support to the data services and marketing automation leads
- Support various Consumer Marketing initiatives related to connecting with and engaging with our readers
- Provide support for data governance and compliance efforts across a range of marketing activities including data collection and activation
- Support audience segment creation and activation in collaboration with our Performance Marketing and Engagement teams
- Assist the email marketing operations team in their support of email marketers across the company
- Pull metrics for ad hoc reporting requests
- Identify opportunities to streamline processes to accelerate and scale data-driven marketing efforts

Job requirements

- Experience working with first-party consumer data
- Experience creating audience segments for email and/or advertising channels
- Strong organizational skills
- Excellent attention to detail and ability to multitask
- Self-starter with ability to work across multiple teams as well as independently
- Experience securely transferring and/or ingesting marketing data
- Ability to meet deadlines, prioritize and manage multiple projects, and think on your feet to address unexpected challenges
- Quick learner of new technologies and tools
- Experience working within ESPs or CDPs on audience creation and management
DEVOPS ENGINEER

Salary: $120,000-$130,000

Job duties

- Shares ideas and implements solutions for improving infrastructure and software through automation, monitoring, performance tuning, health monitoring, and tool creation
- Implements highly available, secure, scalable, and self-healing systems
- Works closely with development teams to provide fully automated delivery pipelines through development, test, and production
- Documents standard processes for system deployment, maintenance, and alert management
- Assist development teams with infrastructure design as needed
- Evaluate and advise on system and application architectures
- Assist in supporting standardized tools and best practices for deployment processes
- Collaborate with information security team on mitigation efforts
- Investigate, troubleshoot, and triage production problems as they occur
- Contributes directly to the planning and execution of the next iteration of core services
- Support existing legacy applications until they can be re-engineered
- Participates in an active on-call rotation

Job requirements

- Bachelor’s degree in Computer Science or equivalent practical experience
- Experienced with creating and troubleshooting automated deployment pipelines
- Proficient with containerization technologies such as Docker, ECS, Kubernetes
- Skilled in automating cloud deployments via Cloud Formation or Terraform
- Experience with AWS such as: EC2, SQS, Lambda, RDS, ECS, ELB, S3, API Gateway
- Good understanding of load balancing and networking
- Well-versed in GIT usage and software engineering best practices
- Strong Unix/Linux proficiency
- Web application development experience (Java, PHP, Python, etc.)
- Familiarity with configuration management tools (i.e. Chef, Puppet, Ansible, or Saltstack)
- The ability to work independently as well as perform as part of a scrum team
- Ability to learn and apply new technologies quickly
SOFTWARE DEVELOPER

Full-time // Dulles, US // Arvato Digital Services LLC // Job ID: 241321

Job duties

This is a hands-on software developer position responsible for the web applications development and maintenance. Candidate must be able to coordinate activities with technical leads/team on design, development and testing activities, and must have a good understanding of .NET Technologies and SQL Server.

Job requirements

- Must have developed at least three web sites using .NET Technologies and SQL Server.
- Minimum 3 Years of hands-on experience working with .NET Technologies (C#, ASP.NET, MVC, WCF, Entity Framework).
- Minimum 3 Years of experience working with AJAX, HTML 5, CSS and JavaScript along with frameworks such as JQuery and/or AngularJS.
- Minimum 3 Years of experience working with Microsoft SQL Server (SQL queries, stored procedures, triggers, SQL Server Integration Services (SSIS), SQL Reporting Services (SSRS).
- Able to update the knowledge in Microsoft technologies.
- Exceptional communication and interpersonal skills with meticulous attention to detail.
- Bachelor's Degree from an accredited college or university in Engineering, Computer Science, Information Systems, or related field or equivalent experience in a software development role.
- Familiarity with Healthcare verticals
- Experience working in an Agile Environment
IT INFRASTRUCTURE ENGINEER - CLOUD ADMINISTRATION

Full-time // Pleasant Prairie, US // Arvato Digital Services LLC// Job ID: 254905

Job duties

- Facilitates communication between staff, management, vendors, and other technology resources within the organization.
- Responsible for representing the US SCS IT department as needed for site specific requests.
- Responsible for supporting and managing any location expansions for existing building or new building in geographic location.
- Provides feedback on the systems that support end users in the productive use of computer hardware and software.
- Participates in system security and back up procedures in coordination with the global IT and Risk teams.
- Provides aid in "hands on" resource with several technical disciplines.
- Provide local and remote management of Infrastructure Operations in a manner consistent with company policies and practices.
- Manage availability and responsiveness of enterprise technology to ensure compliance with requirements and met the overall goals of the organization.
- Coordinate with vendor responsible for global desk, incident and problem management processes, with key focus on any US topics. Responsible for local onsite resources to address any gaps or performance issues.
- Support purchasing department to validate components necessary for the operation of responsible SCS US sites and services.
- Ensure all hardware, software, and database problems are solved in a timely and efficient manner, including overseeing disaster recovery operations and involved personnel.

Job requirements

- Associates Degree in information technology or computer science or equivalent work experience
- 1-2 years’ experience in mid-level information technology position
- 1 year experience with an IT environment that meets ISO27001 compliance certifications
- Experience in data security, risk management and compliance requirements
- Experience with cloud based solutions
- Experience with shared and outsourced solutions
- Experience with supporting in-house information and communication systems in a multi-site client-server environment
- Experience with information technology systems and infrastructure within a multi-location environment
- Excellent verbal and written communication skills
- Must be team-oriented with the ability to lead, motivate, and train other personnel
DATA SCIENCE INTERN

Internship // Morrisville, US // Relias LLC// Job ID: 256808

Job duties

- Collaborate with Data Science team on research and development of machine learning applications to support our stakeholders and customers, including predictive models, recommendation models, and NLP
- Contribute python and/or SQL code on projects, use source control, write unit tests, and participate in code reviews as part of a mature software development life cycle (SLDC)
- Perform exploratory data analysis on business datasets
- Visualization of data using Power BI and/or python libraries

Job requirements

- Knowledge of statistical and data science concepts and methods
- Programming aptitude or can demonstrate Python and SQL coding literacy
- Communication skills to effectively convey complex statistical concepts
- Data visualization skills using tools such as Power BI or Tableau
- Knowledge of cloud platforms such as Azure, AWS, or GCP is a plus
- Academic or other project work demonstrating knowledge, skills and abilities for position
- Bachelor’s level majoring in Statistics, Mathematics, Data Science, Informatics, Computer Science, or similar technical or quantitative major
SOFTWARE ENGINEER INTERN

Internship // Morrisville, US // Relias LLC // Job ID: 256805

Job duties

- Developing software using Visual Studio and VS Code
- Writing code in C# and Angular
- Collaborating with other Software Engineers and Test Engineers within the team
- Participating in an Agile team and attending Scrum ceremonies
- Helping to deliver a functional Angular page that was migrated from ASP.NET WebForms

Job requirements

- Completion of coursework in software programming
- The ability to work in dependently, as well as collaboratively within a team
- Familiarity with Visual Studio or equivalent IDE
- Majoring in Computer Science or related field

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DATA ANALYST

Full-time // London, UK // BMG Rights Management Services Limited // Job ID: 249741

Job duties

- Deliver reporting and self-service dashboards to key stakeholders in the Income Tracking, Royalties, Client Services and Audit teams.
- Work with a solution focused attitude to business challenges, using your technical knowledge to automate and streamline processes involving data transfer, manipulation, enrichment and report delivery.
- Actively review our datasets to suggest improvements and help uphold the integrity of the data.
- Become a key enabler to driving forward data related activities at BMG, to ensure that we are continually improving and iterating our processes to remain as effective and efficient as the volume of data coming into the business grows.

Job requirements

- Strong SQL skills, accompanied with an understanding of database querying best practices and optimisation.
- Experience delivering compelling reporting/insights via BI platforms (Looker/Tableau/Power BI etc).
- Academic qualification in a related field or relevant professional experience (of a standard of at least 3 years).
- Strong interpersonal and relationship building skills.
- A love of music, with a deep passion for ensuring that Artists are remunerated fairly and accurately.
- Basic understanding of a computer programming language such as Python or C++.
- Previous experience of working in a similar role in the music industry.
- Previous experience of using the Google Cloud Platform (Key components for this role – BigQuery, Looker, Cloud Workflows).
- Understanding of code deployment/version control via Git.
- Understanding of how statistical techniques and methodologies can be applied to data to surface insights.
BUSINESS ANALYST (DIGITAL TRANSFORMATION PROGRAMME)
Full-time // London, UK // FremantleMedia Group Ltd // Job ID: 255951

Job duties

- Organise and run workshops with stakeholders to understand and document their business processes and requirements for the projects
- Documenting ‘as-is’ and ‘to-be’ process maps using process mapping tools (SAP Signavio)
- Analysis of process gaps and solution development
- Work with internal tech teams and SMEs on capturing data mappings and data flow, ensuring the information is aligned with the expectations of the various delivery teams
- Creating and managing user stories and their associated business requirements

Job requirements

- Experienced with the production of Business Analysis artefacts and documentation (i.e.: RACI matrix, ‘as-is’ & ‘to-be’ process mapping, business requirements, user stories, use case diagram, etc.)
- Knowledge of Business Analysis concepts & techniques (i.e.: SWOT, BPM, Functional & Non-functional Requirements, MoSCoW, etc.)
- Experienced with the use of process mapping tools (e.g.: SAP Signavio, Microsoft Visio, etc.)
- Experienced with facilitating UATs with users (including the creation of test scripts & acceptance criteria and the management of issues/defects)
- Excellent stakeholder engagement & management skills (i.e.: Workshops, interviews, questionnaires, product demos, etc.)
- Extensive experience working with relational data and databases
- Previous experience working with Agile Methodology
- Proven ability to gather information across multiple sources and be able to reconcile into a comprehensible format for further use by other teams involved with the delivery of the programme (i.e.: dev/tech teams, design teams, etc.)
- Ability to work in a fast-paced environment and manage multiple priorities across different projects
- Experience with NoSQL (i.e.: non-relational) databases
- BA Qualification – BCS International Diploma in Business Analysis (or equivalent)
- Working knowledge of BPMN 2.0 standards
- Working knowledge of Business Analysis governance and best practice processes
- Previous experience managing projects/workstreams independently
- Experience with Jira & Confluence
- Experience with Monday.com
- Experience with Microsoft Teams (including shared folder management on Teams)
ARCHITECT DATA (W/M/D)

Full-time // Cologne, Germany // RTL Deutschland GmbH // Job ID: 168723

Job duties

- You'll design the architecture of our modern data platform that enables reporting, analytics and machine learning
- You'll support our (junior) colleagues and lead them technically, provide and actively share your expertise and best practices for the development and operation of our data products with the team
- You'll work in an agile (scrum), international environment and collaborate with different stakeholders, coordinate with them and promote decisions
- You'll develop and promote an actionable roadmap for the architecture vision and collaborate with various development teams to ensure consistent implementation
- You'll facilitate exchanges between our development teams, take charge of communicating technical decisions, and drive initiatives to reduce technical bugs
- You'll represent the data platform in the architecture and technical communities of our group
- You'll work with modern data stack technologies for Batch und Stream processing, MLOps Technologies, Google Cloud Platform, Docker/Kubernetes, Microservices

Job requirements

- You've worked as a data architect, data engineer, or in related roles for at least five years
- You've worked with the whole stack around python, jvm, IaC and you are cloud native - actually we are home in CGP
- You're always up to date with the latest developments in data technologies and architectures
- You have hands-on experience in designing, building, and operating a modern data platform for batch and real-time data processing
- You have a solid understanding of the needs and working methods of cross-functional data teams using analytics and artificial intelligence to add business value
- You have a good understanding of data processing compliance requirements and the GDPR
- You have excellent written and verbal communication skills - at least in english, german would be a plus
SENIOR DATA ANALYST

Full-time // Norway, Sweden, Germany, Finland // Riverty Group Norway AS // Job ID: 256850

Job duties

- You will evaluate portfolios of non-performing loans and present your finding to decision makers
- You will coordinate with relevant interfaces to understand the value drivers of the portfolio and how it fits the operational platform in each country/jurisdiction
- You will support the operational side of the business with ad-hoc analysis
- You will drive projects to help further development and improvement of existing analysis and evaluation models

Job requirements

- University degree in Economics, Mathematics or a comparable course of study with a strong link to data
- Minimum of 5 years of analytical experience within the finance industry, preferably within Debt Collection
- Experience in the Nordic market
- Strong interpretation skills as well as a distinct understanding of numbers and analysis
- Excellent skills with the MS Office package in general and with Excel in particular
- An understanding of how to perform data extraction and manipulation, an understanding of programming languages (SQL, R, Python, etc.) is a strong plus
- Excellent analytical capacity with a creative, logical and structural approach to problem solving
- Comfortable with working in an environment of change and multiple priorities
- A detail-oriented focus and ability to work both independently and in teams
- Excellent communication skills in English, understanding of a Scandinavian language is an advantage
(SENIOR) DATA ENGINEER

Full-time // Oslo, Norway // Riverty Group Norway AS // Job ID: 221302

Job duties

- Semantic Power BI data modelling and dashboarding for requested initiatives.
- Take lead in design and development of ETL solutions using Azure Data Factory, Databricks and other data tools.
- Testing and troubleshooting.
- Collaborate with international teams to integrate varieties of systems ultimately creating the ‘Arvato Financial Solutions data universe’.
- Develop and execute database queries and conduct analyses.
- Translate business needs to technical specifications

Job requirements

- Proven experience as a BI Developer using Microsoft Data technology.
- Background in data warehouse design (e.g. dimensional modeling), data mining and database management systems.
- Years of experience in ETL development (e.g. using Azure Data Factory).
- Strong understanding of the analytical possibilities of different data structures.
- Proven abilities to take initiative and be innovative.
- Analytical mind with a problem-solving aptitude.
- Possess the ability to balance multiple priorities in an agile team, be detail-oriented and also work independently.
- You are always interested in the best solution.
- You are a team player.
- High proficiency with a variety of data sources and types of data (both structured and semi-structured data).
- BSc/BA in Computer Science, Engineering or relevant field
- Experience with the financial industry, especially in Debt Collection and Buy Now, Pay Later.
- Experience with Terraform.
- Experience in Code based ETL/ELT using Python, Scala, Apache Spark, Databricks, Delta Lake et al.
- Experience in Low-code ETL using SSIS or similar tools.
ENTERPRISE DATA ARCHITECT

Full-time // Berlin, Germany // Riverty Group GmbH // Job ID: 232581

Job duties

- You design the architecture of our modern data platform that enables BI, Data Science and Machine Learning.
- You formulate techniques for quality data collection to ensure adequacy, accuracy and legitimacy of data.
- You develop and promote an actionable roadmap for the architecture vision and collaborate with various development teams to ensure consistent implementation.
- You create, improve and maintain our data architectures to create and distribute complex datasets.
- You make sure data is separated, secured and meeting local as well as international data security and privacy standards such as GDPR and other.
- You define data objects and attributes, data definitions, and RASIC matrix for data creation, access, change, sources of truth.
- You create and enforce policies for effective data management.
- You ensure digital databases and archives are protected from security breaches and data losses.
- You represent the data platform in the architecture and technical communities of our group.
- You facilitate exchanges between our development teams, take charge of communicating technical decisions, and drive initiatives to reduce technical bugs.
- You support others in the daily use of data systems, actively share your expertise and best practices for the development and operation of our data products and ensure adherence to legal and group security standards.
- You continuously look for improvements, increased scalability and automation of manual processes to accelerate consolidation.
- You monitor and analyze information and data systems and evaluate their performance to discover ways of enhancing them (new technologies, upgrades etc.).

Job requirements

- You've worked as a data architect or in related roles for at least five years.
- You are always up to date with the latest developments in data technologies and architectures, especially in Microsoft Azure.
- You have proven hands-on experience in designing, building, and operating a modern data platform for batch and real-time data processing.
- You have a solid understanding of the needs and working methods of cross-functional data teams using analytics and artificial intelligence to add business value.
- You have a good understanding of data processing compliance requirements and the GDPR. You already have experience with Microsoft Purview for Data Governance.
- You have excellent written and verbal communication skills - in English; German is a plus.
- You love to collaborate with others and establish information networks.
- You have an analytical mindset with problem-solving skills.