

## PROFESSIONAL SUMMARY

- 16+ years of experience in data analytics products, hedge funds, e-Commerce, analytics, Digital, Cloud, Big Data, B2B/B2C, Small-business products, enterprise applications and messaging systems
- Experienced Python architect and developer – Data, analytics, Machine Learning and AI, Django/MVP framework, Flask, Networking, Object-oriented concepts and implementation
- Python packages – Pandas, django, flask, pykafka, paramiko, numpy, scp, celery, threading, multiprocessing, pymongo, mysqldb, sqlite, threadedTCPServer, threadedUDPServer, scikit-learn, pyml, pydoop, pyspark
- Implemented products/solutions for – Market data, networking Data, Healthcare professionals Data, Internet traffic (HTTP/HTTPS/TCP) data for Media, Cable and Entertainment use cases
- Experience with databases – MongoDB, PostgreSQL, MySQL, Cassandra, HBASE
- Experience with Data modeling, database architecture and design (SQL, NoSQL and hybrid SQL/NoSQL environments) and data mining
- Experience modeling, programming, analyzing Unstructured data (HTTP traffic, TCP data, ICMP data, Traceroute data, UDP/Multicast data), transforming it into Big Data (non-Big Data environments) for data analysis, machine learning, business insights, automation / real-time alerting, Text mining and Web crawling using Python (Selenium)
- Experience with architecting, designing and programming in Object-oriented languages and frameworks (Python)
- Innovate, hands-on technology architect with experience setting up technology vision, leadership and leading software architecture, infrastructure architecture/engineering, product, entrepreneurship, and development of data-driven products, data security practices, scalable infrastructure, building and leading teams, setting up processes to drive revenue, cost-savings and product growth
- Conceptualized, architected and developed mobile apps, responsive sites and heavy traffic web platforms
- Successfully led cross functional teams (Programmers, Architects, Data Scientists/Analysts, Product Owners, Engineering, Business Analysts, PMO, Support etc.) to drive critical projects on time and under budget
- Managed the entire product and software development life-cycle including gathering requirements, analysis, design, development, testing, implementation, maintenance, and operations of software applications and systems
- Experience in CTO, CEO, Director, Entrepreneur, Hands-on programming, On-shore/Off-shore management, Team Management, Consulting roles
- Masters degree in Information Systems Management from Carnegie Mellon University, Pittsburgh, PA
- US citizen

## PROFESSIONAL EXPERIENCE

**Jan 2017 – Jun 2017**

### **Consultant/Data Architect**

- Hands-on architect and lead programmer for master database, data analytics, machine learning and AI for 40+ Healthcare magazine franchises (print magazines, websites and email campaigns)
  - Integrated web databases into Master database
  - Build Django and pandas Dashboard to interact with the Master database
  - Machine Learning for system to progressively learn about Oncologists and AI to predict their reading email articles
- Technology: Python, Pandas, Flask, Django, pycharts, plotly, PostgreSQL, MongoDB, MySQL, Linux/Bash, Bitbucket (some devices hosted on Amazon AWS/S3)

**Mar 2016 – Jan 2017**

### **Hands-on Manager / Python Data Architect**

- Client (World's top Hedge Fund) – (Role – Python Architect/Lead developer)
  - Drove strategic initiative / requirements and lead the implementation of a mission-critical high-performance big data platform for networking and infrastructure data sets
  - Hands-on design, architecture and lead programmer for the entire platform

- Developed 5 networking and infrastructure monitoring modules, designed and implemented the metrics and logs data model.
- Real-time routing using Solace hardware messaging platform. Data is received into Splunk, and Hadoop for analysis, insights, monitoring, and alerting use cases.
- Implemented web / JSON driven modules loading, activation, metrics collection using Python/Django, Angularjs, Nodejs, MongoDB
- Designed and implemented Big data platform using - MapR Hadoop, MapR Spark, MapR-DB, MongoDB, Pyspark, SparkingPandas, and pymongo as well as core Python packages.
- Platform includes data collection and aggregation agents on 100+ devices (globally), multi-TB data collected daily. Data Collection and aggregation agents implemented using multi-threaded socket programming (ThreadedTCPServer, ThreadedUDPServer) as well as Paramiko, Numpy, Pandas, scp, celery, threading, pymongo, and sqlite
- Achievement:
  - Successfully launched the Platform (100+ devices globally, multi-TB data collected daily) and identified/analyzed network and infrastructure inefficiencies in the first month resulting in positive revenue impact of \$6+ million
  - Currently serve as the go-to specialist within Sapient and the client for Python related projects
- Technology: Python, Django, PostgreSQL, MongoDB, MEAN stack, Linux/Bash, MapR Hadoop, MapR Spark, MapR-DB, MapR-FS, Bitbucket (some devices hosted on Amazon AWS/S3)

**Feb 2015 – Oct 2015**

### **CTO/Sr. Director, Product/Architecture**

- Served as the overall technology (CTO role) and product lead for the company
- Product/Architecture –
  - Router-based product for Big Data gathering
  - Server infrastructure for near real-time data uploads for up to 100,000 routers
  - Data collection for 4.3 billion IP addresses globally for providing insights on overall Broadband subscriber movements
    - Built a dashboard in Python/Django (pandas, pycharts) to graphically view the data
- Lead Programming -
  - Implemented OpenWRT and wrote Linux and Python/PHP code for the Router firmware.
  - Server-based data gathering code in Python, PHP, Linux/Bash and MySQL
  - Data collection and analytics platform built using Python/Django, MySQL and Hadoop/MongoDB
    - Built a dashboard in Python/Django (pandas, pycharts) to graphically view the data
- Infrastructure Engineering –
  - Built the cloud infrastructure using company owned servers (225GB RAM, 54TB space) for data analytics platform
  - Hands-on implementation of the Amazon AWS virtual instances for proxy and VPN server implementation
- Data Science-
  - Led a team of data scientists to devise and programmed data models from clickstream behavior big data set use cases using Python, Apache Hadoop/MapReduce and NoSQL/MongoDB
  - Coded data models in Python/MongoDB/Hadoop/MySQL to support US broadband subscriber movement
- Achievement: Successfully launched the Router-product for Data gathering (first of its kind) that generated \$1 million in revenue in 6 months
- Technology: Python, Django, JSON, MySQL, Linux/Bash, MongoDB, PostgreSQL, MySQL, Hadoop, MapReduce, PHP, Git/Bitbucket, Angular, React

### **Independent Consulting Company (Architect and Programming Consultant)**

**Sep 2012 – Jan 2015**

- Architect for Big Data implementation for B2B Sales Data analytics to find insights for lead to customer conversion
  - Implemented higher quality leads data model
  - Implemented right time to email data model
  - Implemented right time to call data model
- Achievement: Successfully delivered the Reporting product on-time on-budget to support over 400 hotels and \$1billion in sales
- Technology: Python, Hadoop, Cassandra, JQuery, HTML, Oracle 11g, Bitbucket

### **Leading Small Business Email/Events cloud-based marketing client**

- Architect/Sr. Software Engineer for customer-facing analytics for their SMB customers' marketing campaigns using Big Data.

- Implemented best time to email data model
- Implemented ideal coupon percentage data model
- Implemented ideal frequency for hosting events data model
- Achievement: Delivered the insights through responsive Web UI (charts and tables) with sub-second response from 15 years worth of data for 600,000 clients and 25 million marketing campaigns
- Technology: Python, Django, Hadoop, Cassandra, JQuery, Javascript, HTML, Git

### **CEO and Co-Founder – Data-driven eCommerce platform**

**Jan 2011 – May 2012**

- Built a data-driven e-Commerce cloud platform where the consumer can manage the purchase life cycle experience
- Achievement: Raised \$500k in Angel funding for GoSkoop start-up as the CEO. Loaded over 12 million e-Commerce products from over 100+ e-Commerce partners through data aggregation
- Technology: Python/Django, AJAX, JQuery, MySQL, Linux/CentOS, Apache

**Feb 2005 – Jan 2011**

### **B2B e-Commerce Portal Development Manager**

- Achievement: Increased annual revenue by \$25+ million; increased annual online and mobile traffic by 50% and sales transactions by 20%

#### **Technology Operations Manager**

- Achievement: Saved \$10 million in annual operations and support costs. Because of the support processes, my team resolved 90% of the tickets within the promised SLA

#### **Enterprise Middleware Manager**

- Achievement: Increased the B2B footprint to manage \$500+ million in B2B transactions annually and on-boarded 25 new B2B partners. Enterprise application interfaces supported 70% of purchase orders for all of US Sony Electronics

### **Software Architect, USA**

**Jan 2004 – Nov 2004**

### **Sr. Mgmt/Technology Consultant, USA**

**Sep 2000 – Oct 2003**

## **EDUCATION**

### **Carnegie Mellon University, Pittsburgh, PA, USA**

**Aug 1999 – Aug 2000**

Master in Information Systems Management

### **Victoria Jubilee Technical Institute, Mumbai, India**

**Jul 1995 – Jun 1999**

Bachelor in Computer Engineering

## **SOFTWARE EXPERIENCE**

- Languages: Python, PHP, Java, Ruby, C, C++, C#
- Framework/Packages: Full Stack Python, Django, Flask, ZEND/PHP, Selenium, Rails
- Javascript / frameworks / stack: Nodejs, Reactjs, Angularjs, Coffeescript, Expressjs, MEAN, AJAX, JQuery, D3
- Web: HTML, HTML5, CSS/SASS, Javascript, ASP, JSP, VB Script, Adobe Site Catalyst, Google Analytics
- Databases: MongoDB, PostgreSQL, Cassandra, Hadoop/HBASE, Oracle, MS SQL, My SQL, MS Access, Sybase, ElasticSearch (ELK)
- Operating Systems: Linux (CentOS, Ubuntu), Unix (AIX, HPUX, Solaris), MAC OS, Windows
- Microsoft: Word, Excel, PowerPoint, SharePoint, Access, Project, Visio
- Mobile: Android, iOS. Responsive websites
- Enterprise: Siebel, SAP ERP, Oracle ERP, webMethods, TIBCO, SeeBeyond, WebSphere, WebLogic

## **SKILLS**

- Industry verticals: Hedge Funds, Digital, Financial Services, Banking, Hospitality, Electronics, Retail, Entertainment, Travel

- Strategy and execution: Data strategy, Digital strategy, Online B2C/B2B strategy, Mobile strategy, eCommerce roadmap, Cloud strategy, Social strategy, Enterprise strategy and customization, API / interfaces strategy
- Product focus: Data Science, Python implementations, Big Data / Hadoop / Spark
- Product Management Methodology: Agile/Kanban using JIRA, Teamwork and Asana