

David B Mittelman

MOUNTAIN VIEW, CA 94041
DBMITTELMAN@GMAIL.COM

C : (860) 575-3437
U.S. CITIZENSHIP

SKILLS

- LabView, MATLAB, Android OS, iOS, Arduino, Processing
- Java, C, C++, Python, Objective-C, PHP, MPI, Electronic Circuit Design, Embedded Systems
- Parallel & Distributed Computing, Embedded Systems Development, Machine Learning, Neural Networks
- JQuery, JavaScript, CSS, SCSS, Jade, MySQL, PostgreSQL, Backbone, Bootstrap, D3.js, Git, Functional Programming, Nodejs, Express, SailsJS, Ruby on Rails, CoffeeScript, Cucumber, Mocha, Bash/Shell, Laravel
- Dotcloud, AWS, S3, SQS, Heroku, Vagrant, Docker, YouTube API, Salesforce API, Minitest, CircleCI, Jenkins
- Mysql, DynamoDB, RedShift / Postgres, Redis, MongoDB, TempoIQ, Neo4j, PubNub, API Blueprint, Dredd API Testing, Twilio, PubNub, Branch Metrics, Segment, MixPanel, PagerDuty, Papertrail, ES2015, EJS, SASS, LESS, CSS, SailsJS, TypeScript, Docker, Meteor, Loggly
- Release Management, Project Management, Code Reviewer, Agile Processes, People Management, Mentoring, Pair Coding

PROFESSIONAL EXPERIENCE

Civic Technologies

PRINCIPAL SOFTWARE ARCHITECT

Palo Alto, CA

July 2016 - Jan 2017

- Mentored Junior Developers through code reviews and pair coding.
- Responsible for release management and devops of core products.
- Utilized microservices (AWS Lambda) to build out scalable data pipelines.
- Skills involved: Node/Express, TypeScript, CircleCI, Cucumber, Mocha, AWS, S3, SQS, Docker, MongoDB, Redis, Bash/Shell scripting, Meteor, API Blueprint, Twilio, PubNub, Segment, PagerDuty, Loggly, Javascript, ES2015, EJS, SASS, LESS, CSS, Release Management, Project Management, Code Reviewer, Agile Processes, People Management, Mentoring, Pair Coding

General Specific (iOS Apps 'Ferris' & 'Wheel')

SENIOR ARCHITECT, BACKEND SERVICES

Santa Monica, CA

Nov 2014 - June 2016

- Architected Cloud Architecture for real time video sharing service
- Designed Graph and Pub/Sub Data Models to support both Relational and Time Series Data Storage
- Structured Back Office Reporting Systems for Customer Support and Self Service Data Visualization
- Participated and assisted in Mobile UX and Architecture design discussions
- Implemented Version Control System with Continuous Integration servers for both Cloud Services and Mobile Application Development
- Rewrote entire API Server in Node / Sails, and directed transition from PHP / Laravel
- Skills involved: Node/Express, CoffeeScript, CircleCI, Cucumber, Mocha, AWS, S3, SQS, Heroku, Vagrant, Postgres, Neo4j, Redis, Bash/Shell scripting, GrapheneDB, PHP, Laravel, iOS, Objective-C, SailsJS, XCode, API Blueprint, Dredd API Testing, Twilio, PubNub, Branch Metrics, Segment, MixPanel, PagerDuty, Papertrail, Javascript, ES2015, EJS, SASS, LESS, CSS

Maker Studios

LEAD ENGINEER, DATA PIPELINE

Culver City, CA

Nov 2013 - Nov 2014

- Designed & Implemented Data Pipeline to ingest data from multiple external & internal sources
- Utilized modern horizontal scaling techniques to ensure constant performance regardless of load
- Designed & Implemented internal facing API to facilitate data requests from multiple consumers
- Managed a small team of Engineers assigned to the project after MVP stage
- Skills involved: Node/Express, CoffeeScript, CircleCI, Cucumber, Mocha, Dotcloud, AWS, S3, SQS, DynamoDB, Heroku, Vagrant, RedShift/Postgres, Redis, MongoDB, Bash/Shell scripting, YouTube API, Salesforce API

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Savant Systems SOFTWARE ENGINEER

Hyannis, MA
May 2012 - Nov 2013

- Implemented PHP and MySQL data server for collection, archiving, and data mining of usage data
- Development of iOS software project for showcasing product line
- Development of Enterprise Management System to monitor status of installations web portal
- Tasked with UI and Usability Design for Enterprise Management System
- Skills involved with EMS project: Javascript, Backbone, Node, SASS & Jade templating, D3.js, JQuery, Git, Jenkins-ci, Jasmine testing, Redis

LBI Corporation CONTROL SYSTEMS ENGINEER

Groton, CT
Nov 2011 - May 2013

- Tasked with the development of new control paradigms for Unmanned Underwater Vehicles
- Supervised various subcontractors on development and installation of vehicle control systems
- Sole Developer of software for Scientific Remote Sensing Buoys
- Co-Designed and Tested electronics package for Scientific Remote Sensing Buoys
- Skills used: Arduino & Processing, Electronic Circuit Design & Embedded Systems, Functional Programming, Git

NASA Marshall Space Flight Center Robotics Academy RESEARCH ASSOCIATE

Huntsville, AL
May 2011 - Aug 2011

- Tasked with enhancing the capabilities of NASA's Flight Robotics Laboratory
- Modernized the automated air-bearing vehicle to aid research of space vehicle docking operations
- Developed a 3 Degree of Freedom Docking Algorithm for future application in space flight vehicles
- Skills Used: LabView, MATLAB, Machine Learning

REU Experimental Research in Wireless Networking INTERN

Notre Dame, IN
June 2009 - Aug 2009

- Explored the viability of an embedded system Distributed Computing Cluster
- Compared the energy cost and heat dissipation to a "normal" Distributed Computing Cluster
- Worked individually, but met regularly with a team to discuss issues and project direction
- Skills Used: Linux, C, MPI, Distributed Computing

United States Navy SUBMARINE SONAR TECHNICIAN, PETTY OFFICER SECOND CLASS

Groton, CT
Sept 2005 - May 2008

- Graduated in top 10% of training class
- Promoted to a supervisory role within 9 months of enlisting
- Achieved rank at twice the average rate of peers (Petty Officer Second Class at 2 years, 6 months)

CALIBRATION INDUCTION PETTY OFFICER, NSSF GROTON

- Managed equipment calibration intake desk
- Developed database for over 180,000 records, reducing intake time by 80%
- Trained workshop of 20+ Sailors on database operations

SUBMARINE SONAR TECHNICIAN, USS MEMPHIS

- Operated submarine sonar, oceanographic equipment, and submarine auxiliary sonar
- Coordinated submarine sonar and underwater fire control interface
- Performed organizational and intermediate maintenance on submarine and allied equipment
- Underway for 12 weeks in a 9 month period, longest underway 9 weeks with only 5 days in port
- 6+ months of shipyard experience at Electric Boat, Groton & Portsmouth Naval Shipyard

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EDUCATION

	University of Connecticut Honors Program	Storrs, CT
May 2012	Bachelor of Science Computer Science and Engineering	GPA: 3.571 / 4.00
May 2012	Bachelor of Arts Cognitive Science	
Sept 2010 - May 2011	University of Connecticut Study Abroad Global Engineering Educational Exchange Participant • University of Leeds, Institute for Artificial Intelligence and Biological Systems	Leeds, England
Aug 2004 - Aug 2005	Massachusetts College of Art Bachelor of Arts Photography and Art History	Boston, MA
Aug 2002 - Dec 2003	Boston University Bachelor of Science Computer Engineering & Naval Science	Boston, MA

RELEVANT COURSEWORK

- Digital Logic Design, Electrical Circuits, Computer Arch., Digital Integrated Circuits, Signals & Systems
- OO Design & Programming, Data Structures & Algorithms, Discrete Systems, Software Engineering
- Algorithms and Complexity, Machine Learning, Bio-Inspired Computing, Computer Vision
- Knowledge Representation & Reasoning, Artificial Intelligence, Programming Language Translation
- Probabilistic Performance Analysis of Computational Systems, Computer Organization & Architecture

HONORS

2009-PRES	HONORS SOCIETY: Tau Beta Pi Upsilon Pi Epsilon Golden Key International Honour Society Phi Kappa Phi
2008-2012	DEAN'S LIST OF ACADEMIC HONOR: University of Connecticut College of Engineering
2004-2005	DEAN'S LIST OF ACADEMIC HONOR: Massachusetts College of Art
2002-PRES	HONORS SOCIETY: National Society of Collegiate Scholars
2002-2003	DEAN'S LIST OF ACADEMIC HONOR: Boston University

PROFESSIONAL MEMBERSHIP

2008-PRES	Association for the Advancement of Artificial Intelligence
2007-PRES	The American Legion
2002-PRES	Institute of Electrical and Electronics Engineers

ACTIVITIES / VOLUNTEER WORK

2015-PRES	Code.org: HOUR OF CODE VOLUNTEER
2012-PRES	FIRST Robotics Pine Tree Regional Planning Committee: SOCIAL MEDIA COORDINATOR
2014-PRES	FIRST Robotics Los Angeles Regional: JUDGE
2014-PRES	FIRST Robotics Inland Empire Regional: JUDGE
2011-2012	Undergraduate Student Government Funding Board, UCONN: VICE-CHAIRMAN
2008-2010	Undergraduate Student Government Funding Board, UCONN: BOARD MEMBER
2002-PRES	FIRST Robotics Competition: PARTICIPANT, VOLUNTEER, MENTOR
1999-2012	Volunteer Fire Department, Old Lyme CT: SENIOR MEMBER