

David B Mittelman

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TECHNICAL MANAGER | MENTOR | AGILIST | INTRAPRENEUR EARLY-STAGE STARTUP LEADER | IOT | VENTURE STUDIO

Highly technical manager with vast experience in software development, from feature development and testing to system and organization design. Familiar with government and DoD procurement procedures. Known for managing small heterogeneous teams of engineers, designers, and QA. Expertise in architecting software and cloud services.

Experience in very early startups and high-level engineering leadership.

SKILLS

Business Management

Early-Stage Startups

Organizational Design

Contract Development

People Management

Strategic Planning

Polyglot | Typescript | Node | Python | Machine Learning Infrastructure

Release management and DevOps of core products

United States Navy Veteran

PROFESSIONAL EXPERIENCE

SORCE, Santa Monica, CA

2022 - Pres

Member of the Board of Advisors

Currently advising the CEO and COO on the product roadmap, strategic direction, and market strategy.

GSK, South San Francisco, CA

2021 - Pres

Senior Software Engineer, Sequence Learning Group, AI/ML Engineering, Medicinal Science and Technology

Currently serving in a technical lead role within a Machine Learning group of GSK. In addition to serving in an Individual Contributor role, I provide strategic technical direction, agile coaching, and mentoring to the group.

- First Software Engineer hired into a pure AI/ML Science organization as it expanded from model development to deploying its work within the various departments along the drug pipeline.
- Responsible for setting the standard for Engineering Excellence and leading by example.
- Developed an internal port of an open-sourced model to predict gene expression.
- Served as the primary technical liaison for GSK's partnership with Cerebras Systems
- Conducted the requirements gathering and system design for a cross-cluster Hyperparameter Optimization tool designed to run on-premise and in the cloud across multiple data centers to maximize resource utilization.

Skills involved: Python | PyTest | Docker | Conda | TensorFlow | PyTorch | Seldon | Slurm | Azure Dev Ops | CUDA | Jupyter Notebooks | Pandas | NumPy | Dask | Scientific Computing | Distributed Computing | Parallel Computing | gRPC | REST API | Genomics | Biology | Project Management | Vendor Management | Operational Risk Management | Optuna | Hydra | Linux | Scrum | Agile Methodologies | Mentoring

Palo Alto Research Center (PARC), a Xerox Company, Palo Alto, CA
Intrapreneur & Technical Lead, IoT New Business Ventures

2020 - 2021

Led the technical development of a generalized platform for new IoT ventures within a venture studio environment. Served in embedded roles within the new ventures to ensure their technological success while hiring a permanent team.

- Responsible for hiring Engineers, Data Scientists, Product Managers, and Project Managers for the Venture Studio and new ventures, resulting in over 14 hires.
- Developed an organizational plan for the Venture Studio, resulting in the current hiring plan.
- Streamlined the interview cycle to reduce hiring time from weeks to under a week, resulting in a much larger candidate screening pool and fewer rejected offers.
- Developed the initial software development organization plan for Eloque to identify initial engineering hires.
- Served as a critical Individual Contributor in the development of the MVP for Eloque, resulting in a product launch timed with the company's launch and a second high-profile project with the State of Victoria, AUS
- Advised the VP of Engineering and CEO on the organizational development and product development of Eloque, resulting in the current corporate plan.
- Established Agile Development practices for Eloque and the Venture Studio
- Served as the Release Manager for the Eloque organization, maintaining a biweekly release cadence.
- Conducted customer discovery and market research for a possible aquaculture venture.
- Developed an overall Venture Studio strategy to commercialize the PARC Intellectual Property Portfolio

Skills involved: Node/Express | TypeScript | CircleCI | Docker | Redis | Bash/Shell scripting | Javascript | Release Management | Project Management | Code Reviewer | Agile Methodologies | People Management | Mentoring | Pair Coding | Python | Data Governance | Data Engineering | Tableau | Auth0 | Heroku | Product Management | Organizational Design | AWS | Kinesis | Real Time Systems | IoT Core | TimescaleDB | BalenaOS | Raspberry Pi | Fiber Optic Interrogators | Fiber Bragg Grating Sensors | Postgres | Terraform | Software Project Management | Business Analysis

Zume, Mountain View, CA
Manager, Machine Learning Platform & Demand Prediction

2018 – 2020

Architected Model Training and Serving Platforms while leading the Machine Learning Engineering Group. Managed 6 ML Engineers and Data Scientists while reporting to the Director of Data Science.

- Designed and implemented a Learning Management Program to address the lack of technical knowledge transfer, culminating in a pilot with a Junior Software Engineer and a Junior Data Scientist.
- Provided mentorship and guidance to the team, resulting in an engineer stepping into the technical lead and scrum master role and a data analyst transferring into the group as a Junior Data Scientist.
- Created a formal Data Governance program resolving subpar data models and quality issues throughout the company. Established a virtual group with representatives from each company area to provide guidance and successfully transferred the responsibility to an incoming manager.
- Managed the relationship with the President of Zume Pizza to establish trust and confidence in our models to improve the demand forecasting operations. Our group transferred responsibility for all markets from Zume Pizza's internal team to the ML organization after gaining the trust and confidence of the stakeholders involved.

Skills involved: Node/Express | TypeScript | CircleCI | Mocha | Docker | Redis | Bash/Shell scripting | Javascript | Release Management | Project Management | Machine Learning | Code Reviewer | Agile Processes | People Management | Mentoring | Pair Coding | Python | Data Governance | Data Engineering | Kubernetes | Kubeflow | Istio | Helm | Tableau | GCP | Auth0 | FiveTran | Segment | Snowflake | Heroku | Jenkins | SQL | Scrum | Agile Methodologies

4th Law, San Jose, CA

2016 – 2019

Founder, Chief Technology Officer

Implemented Agile Software Development practices from the inception of the company. Directed the development and implementation of cloud strategy and embedded device strategy.

- Negotiated supplier contracts and sourced components for potential projects.
- Proactively managed initial seed funding resulting in over a year of development, and sourced facilities, equipment, and resources for initial operations in Silicon Valley
- Spearheaded multiple partnership negotiations with drone and drone services companies.
- Negotiated potential Research & Development contracts with the US Air Force
- Prepared two provisional patents for technologies developed by the company

Skills involved: Cucumber, AWS, S3, Lambda, SQS, Kinesis, MongoDB, Redis, Neo4j, Bash/Shell scripting, API Blueprint, PubNub, Javascript, EJS, Government Procurement, Patent filing

General Specific (iOS Apps' Ferris' & 'Wheel'), Santa Monica, CA

2014 - 2016

Senior Architect, Backend Services

Architected Cloud Services for real-time video sharing service.

- Designed Graph and Pub/Sub Data Models to support 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 a Version Control System with Continuous Integration servers for Cloud Services and Mobile Application Development.
- Translated PHP/Laravel API Server to Node/Sails and directed transition, improving performance & scalability.

Skills involved: Node/Express, CircleCI, Cucumber, Mocha, AWS, S3, SQS, Heroku, Vagrant, Postgres, Neo4j, Redis, Bash/Shell scripting, GrapheneDB, PHP, Laravel, iOS, Objective-C, SailsJS, Jenkins, XCode, API Blueprint, Dredd API Testing, Twilio, PubNub, Branch Metrics, Segment, MixPanel, PagerDuty, Papertrail, JavaScript, ES2015, EJS, SASS, LESS, CSS, SailsJS | Web Development | HTML | Cascading Style Sheets (CSS)

SPEAKING ENGAGEMENTS

NYU, Tandon School of Engineering, Brooklyn, NY

2016

Industry Panelist

Mechatronics Education Innovation Workshop (bit.ly/2gawvw6)

General Assembly, Santa Monica, CA

2015

Guest Lecturer

Intro To Neo4j, General Assembly Web Development Immersive Course (bit.ly/19M6dZj)

EDUCATION

University of Connecticut Honors Program Storrs, CT

Master of Science, Systems Engineering (Currently Part-time)

Bachelor of Science, Computer Science and Engineering

Bachelor of Arts Cognitive Science

Global Engineering Educational Exchange Participant at the University of Leeds

Institute for Artificial Intelligence and Biological Systems