
SKILLS

Languages, Frameworks and Tools: Ruby (Rails, RSpec, Cucumber), JavaScript (TypeScript, React, Redux, Next.js, Node.js), Python (TensorFlow, Pandas, scikit-learn), C# (.NET), SQL (PostgreSQL, MySQL), Java (Maven), Go, R, HTML, CSS, GraphQL

Cloud and DevOps: Kubernetes, Docker, Amazon Web Services (RDS, SQS, S3, ECS, EC2, EKS, MSK, SSM and more), Google Firebase, Prometheus, OpenTelemetry, Sumologic, Terraform

Software Architecture: Microservices Architecture, Software System Design, Arc42 Architecture Standard, C4 Diagramming Model, Mermaid Diagramming Language

EXPERIENCE

Staff Applications Engineer

Medidata Solutions, a Dassault Systèmes company

April 2023 - Present

- Team leader of 5 other engineers building a new Java-based, Kafka-integrated service on a deadline
 - Implemented two required APIs in C#/.NET in the oldest and most important app at the company
 - Organized design discussions across departments to deliver a new service supporting 2 apps
 - Developed designs and architecture documentation using Arc42 conventions and the C4 model
 - Coordinated and led implementation in 3 languages (Ruby, C#, Java) across 6 repositories
- Mentored 3 junior engineers and collaborated with two senior engineers via code review and pairing
- Added Prometheus metrics to a Go service and contributed to three Go repositories via code review
- Conducted a proof of concept for a Lambda-based approach to handle a high-volume Kafka stream, involving pricing and throughput estimates, creation of Terraform IAC templates, and networking

Senior Applications Engineer, Medidata Solutions

April 2021 - April 2023

- Trained a neural network on a dataset of >10,000 data points, using python, Pandas and scikit-learn
 - Achieved strong precision, recall and F1 scores, and presented findings to data science executives
- Led procurement of a Feature Flagging tool: RFP, POCs, pricing negotiations, presentations, rollout
 - Reduced feature delivery duration to <10 seconds from ~20 minutes, allowing teams to move faster
- Guided two India-based engineering teams on a complex feature implementation in a legacy app
- Designed a feature and led engineering team to implement and launch on a customer-facing dashboard

Applications Engineer, Medidata Solutions

April 2019 - April 2021

- Designed and implemented custom AWS ECS auto-scaling in an application serving >1 million users
- Worked with a team of 4 engineers to maintain, develop, test, and deploy three RoR codebases

Lab Manager and Research Assistant

The Clinical and Affective Neuroscience Lab at Brown University

Jan 2014 — May 2018

- Hired and managed 50+ undergraduates and graduate students working on 15+ projects over 3 years
- Constructed automated graphs using R to display clinical progress for 75+ participants in a 3-year trial
- Managed spreadsheets and combined data from nearly 200 academic papers for a meta-analysis

EDUCATION

Harvard University: Extension School, Cambridge, MA. [Transcript](#)

Spring 2023

Coursera Online. [Mathematics for Machine Learning](#), [Machine Learning](#)

2020-2022

App Academy, New York, NY. *Full-Stack Coding Bootcamp*

Nov 2018 — April 2019

Bennington College (BA), Bennington, VT. *Concentrations: Psychology & Drama*

2008 - 2013