

Jonah Lipsky

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[LinkedIn](#) // [Github](#) // [Portfolio](#)

SKILLS

Languages, Frameworks and Tools: Ruby (Rails, RSpec, Cucumber), JavaScript (TypeScript, React, Redux, Next.js, Node.js), Python (TensorFlow, Pandas, NumPy, 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

Apr 2023 - Present

- Leader of a 5-engineer backend team building a new Java-based, Kafka-integrated service
 - Implemented two C#/.NET APIs our service depends on because the owning team didn't have capacity
 - 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

Apr 2021 - Apr 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

Apr 2019 - Apr 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

Brown University, The Clinical and Affective Neuroscience Lab

Aug 2014 — Feb 2018

- Hired and managed 50+ undergraduates and graduate students working on 15+ projects over 3 years
- Used MATLAB, SPSS, R, and spreadsheets to analyze data, compute statistics, and create graphs
- Ran core aspects of a 5-year clinical trial, including participant enrollment, diagnosis, and assessment

EDUCATION

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

Spring 2023

Coursera Online

2020-2022

[Mathematics for Machine Learning](#) (3 courses), [Machine Learning](#) (3 courses).

App Academy, New York, NY.

Nov 2018 — April 2019

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

2008 - 2013