

# Jonah Lipsky

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## 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**

- 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

**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**