# Jonah Lipsky

jonahlipsky@gmail.com // (774) 392 - 2493

LinkedIn // Github // Portfolio

## 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 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 important apps
   *Created designs and architecture documentation using Arc42 conventions and the C4 model
   *Coordinated implementation in 3 languages (Ruby, C#, Java) across 6 repositories and 3 departments
   *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

**Applications and Senior Applications Engineer, Medidata Solutions     April 2019 - April 2023**

*Trained a deep neural network on a dataset on the order of 10,000 data points, based on production customer data, and achieved strong precision, recall and F1 scores for 7 separate predictors
   *Wrote Python scripts using Pandas and scikit-learn to do EDA and to train the model
*Led procurement effort of a Feature Flagging tool: RFP, POCs, pricing negotiations, executive presentations
   *Spearheaded the rollout of the tool across dozens of teams, including writing internal helper functions
*Created a ruby gem for container autoscaling based on application metrics and deployed it to production
*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.
*Created 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** | **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** |