**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

**Senior Applications Engineer, Medidata Solutions** **April 2021 - 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
  *Created synthetic features based on an analysis of the data and exploration of available features
*Led procurement effort of a Feature Flagging tool: RFP, POCs, pricing negotiations, executive presentations
  *Decreased feature enablement or disablement time from 20-60 minutes to under ten seconds.
  *Spearheaded the rollout of the tool across dozens of teams, including writing internal code to streamline the process, training persons to use the software, and advocating for its expanded use.
*Created a ruby gem for container autoscaling based on application metrics and deployed it to production

**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, and deploy three RoR codebases
*Used TDD (RSpec) and BDD (Cucumber) methodologies to write automated tests in a Rails app.

## EDUCATION

**Harvard Extension School,** Cambridge, MA (attended online). **Spring 2023**
Relevant Coursework: Discrete Mathematics for Computer Science (Grade: A, Transcript)
**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**