

# Jonah Lipsky

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

LinkedIn, Github, Portfolio: <https://linktr.ee/jonahlipsky>

## SKILLS

---

Python, Ruby (on Rails), JavaScript, TypeScript, C# (.NET), Java, Go, SQL, GraphQL, R, HTML, CSS, AWS (RDS, SQS, S3, ECS, EC2, EKS, MSK, Lambda, Kinesis, Cloudwatch, CDK, etc.), Kafka, Kubernetes, Helm, Docker, Terraform, Github Actions, Prometheus, OpenTelemetry, Sumologic, TensorFlow, Pandas, NumPy, scikit-learn, Liquibase, PostgreSQL, MySQL, React, Redux, Next.js, Node.js, Microservices Architecture, Arc42 Architecture Standard, C4 Diagramming Model, Mermaid Diagramming Language

## EXPERIENCE

---

### Staff Applications Engineer

**Medidata Solutions, a Dassault Systèmes company**

**Apr 2023 - Present**

- Delivered a new Java app streaming Kafka messages and deployed in Kubernetes using Github Actions
  - Created end-to-end system design in Arc42: database, APIs, and Kafka-topic messages processors
  - Used github actions to enforce checkstyle, run DB migrations, deploy image to Kubernetes cluster
- POC'd a 1-million-message-per-day Kafka stream processor using AWS Lambda: estimated scaling and pricing, resolved networking issues, and presented to executive leadership
- Added monitoring and reliability measures using Prometheus in a backend service written in Go

### Senior Applications Engineer, Medidata Solutions

**Apr 2021 - Apr 2023**

- Led procurement of a Feature Flagging tool: RFP, POCs, pricing negotiations, presentations, rollout
  - Created and chaired a working group of engineers, architects, and managers to identify solutions for dynamic configuration and feature flagging at the company and guided it to successful completion
  - Reduced feature delivery duration to <10 seconds from ~20 minutes, allowing teams to move faster
  - Saved on the order of \$1 million per year in opportunity cost from lost person-hours
- Trained a deep neural network on Production data using python, Pandas and scikit-learn
  - Achieved strong precision, recall and F1 scores, and presented findings to data science executives
- Shifted the core data model, with two 2 engineering teams I guided, of the most important legacy app on the company's cloud platform, serving >1 million users, to be flexible for critical customer use-cases

### Applications Engineer, Medidata Solutions

**Apr 2019 - Apr 2021**

- Led the feature delivery of a landing page supporting ~900k legacy users to migrate to a new platform
- 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 3 RoR codebases

### Lab Manager and Research Assistant

**Brown University, The Clinical and Affective Neuroscience Lab**

**Jan 2014 — May 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

## EDUCATION

---

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

**Spring 2023**

**Coursera Online Specializations,** [Math for Machine Learning](#), [Machine Learning](#).

**2020-2022**

**App Academy Coding Bootcamp, New York, NY.**

**Nov 2018 — April 2019**

**Bennington College (BA), Bennington, VT.**

**2008 - 2013**