

Jonah Lipsky

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

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

SKILLS

Python, JavaScript / TypeScript, Go, Ruby (on Rails), C# (.NET), SQL, Java, TensorFlow, Pandas, NumPy, scikit-learn, R, GraphQL, HTML, CSS, AWS (RDS, SQS, S3, ECS, DynamoDB, EC2, EKS, MSK, Lambda, Kinesis, Cloudwatch, etc.), Kafka, Kubernetes, Redis, Helm, Docker, Terraform, Github Actions, Prometheus, OpenTelemetry, Sumologic, 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 Claude 2 LLM integration using a cross-AWS-account GraphQL-to-Lambda-resolver pattern, leveraging VPC peering, written in Terraform IAC, and deployed using Github Actions
- Chaired the Artificial Intelligence Committee evaluating A.I. use-cases for recommendation to leadership
- Built a Java app meant to support the leading edge of customer growth and retention
 - Designed and implemented 1 million message per day Kafka stream processors
 - Created end-to-end system design in Arc42: database, APIs, and Kafka-topic messages processors
 - Implemented github action workflows to run CI, migrate the database, manage infrastructure using terraform, and deploy Docker image to Kubernetes cluster
- Presented new-to-the-organization approaches including: github action deployments, Terraform infrastructure management, dynamic feature flag based experimentation, Kafka streaming
- Added monitoring and reliability measures using Prometheus in a backend service written in Go

Senior Applications Engineer, Medidata Solutions

Apr 2021 - Apr 2023

- 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
- 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
 - Saved on the order of \$1 million per year in opportunity cost from lost person-hours
- 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

Lab Manager and Research Assistant

Brown University, The Clinical and Affective Neuroscience Lab

Jan 2014 — May 2018

- Used MATLAB, R, SPSS, and excel functions to compute statistics, analyze data, and create graphs
- Hired and managed 50+ undergraduates and graduate students working on 15+ projects over 3 years

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