

# Jonah Lipsky

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

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

## SKILLS

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Python, Ruby (on Rails), JavaScript, TypeScript, C# (.NET), Java, Go, TensorFlow, Pandas, NumPy, scikit-learn, R, SQL, GraphQL, HTML, CSS, AWS (*RDS, SQS, S3, ECS, DynamoDB, EC2, EKS, MSK, Lambda, Kinesis, Cloudwatch, CDK, etc.*), Kafka, Kubernetes, 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

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### 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

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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