

Jonah Lipsky

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

SKILLS

Languages: Python, Ruby, C#, Java, Go, SQL, JavaScript, TypeScript, GraphQL, HTML, CSS

Frameworks and Tools: TensorFlow, Pandas, NumPy, scikit-learn, Rails, .NET, Maven, Liquibase, PostgreSQL, MySQL, React, Redux, Next.js, Node.js

Cloud and DevOps: AWS (RDS, SQS, S3, ECS, EC2, EKS, MSK, Lambda, Kinesis, Cloudwatch, CDK, etc.), Kafka, Kubernetes, Helm, Docker, Terraform, Github Actions, Prometheus, OpenTelemetry, Sumologic

Software Architecture: Microservices Architecture, Arc42 Architecture Standard, C4 Diagramming Model, Mermaid Diagramming Language

EXPERIENCE

Staff Applications Engineer

Medidata Solutions, a Dassault Systèmes company

Apr 2023 - Present

- Led a 5-engineer backend team delivering a new Java-based, Kafka-integrated infrastructure service
 - 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
 - Identified risk due to a 1-month pre-release timeline and wrote APIs in C#/.NET to enable MVP delivery
- 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
- Used AWS CDK to create monitoring dashboards in code and deployed them to production

Senior Applications Engineer, Medidata Solutions

Apr 2021 - Apr 2023

- 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
- Trained a neural network on a dataset of >10,000 data points, 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 University: Extension School, Cambridge, MA. [Transcript](#)

Spring 2023

Coursera Online [Math for Machine Learning](#) (3), [Machine Learning](#) (3).

2020-2022

App Academy, New York, NY.

Nov 2018 — April 2019

Bennington College (BA), Bennington, VT. Concentrations: Psychology & Drama

2008 - 2013