

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 (current), Senior Applications Engineer, Applications Engineer
Medidata Solutions, a Dassault Systèmes company **Apr 2019 - Present**

- Procured a Feature Flagging tool for company-wide use: RFP, POCs, pricing negotiations, rollout
 - Saved on the order of \$1 million per year in opportunity cost from lost person-hours
 - Reduced feature delivery duration to <10 seconds from ~20 minutes, allowing teams to move faster
 - 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
- 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
- Delivered a landing page on time supporting ~900k legacy users to migrate to an improved platform
- 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 on the approach's tradeoffs
- Led a 5-engineer backend team delivering a new Java-based, Kafka-integrated infrastructure service
 - Identified risk due to a 1-month pre-release timeline and wrote APIs in C#/.NET to enable MVP delivery
 - Streamlined code review by implementing automatic formatting thus creating uniform style in PRs
 - Created and socialized system design docs: database, APIs, and Kafka-topic messages processors, getting buy in from internal and collaborating teams to drive on time delivery
- 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 DS and Eng executives

Lab Manager, 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, Division of Continuing Education, Cambridge, MA. [Transcript](#) **Spring 2023**

Coursera Online [Math for Machine Learning](#) (3), [Machine Learning](#) (3). **2020-2022**

App Academy, New York, NY. *Full-stack Coding Bootcamp*. **Nov 2018 — April 2019**

Bennington College (BA), Bennington, VT. Concentrations: Psychology & Drama **2008 - 2013**

Relevant Coursework: Introduction to CS using Python, The Creation of Statistics using R