Jonah Lipsky

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

SKILLS

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

Frameworks and Tools: Rails, TensorFlow, Pandas, NumPy, scikit-learn, PostgreSQL, MySQL, .NET, Maven, Liquibase, 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**
- Delivered, as lead engineer of a 5-engineer backend team, a new Java-based, Kafka-integrated service
  - Identified risk due to a 1-month pre-release timeline and wrote APIs in C#/.NET to enable MVP delivery
  - 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 service written in Go
- Used AWS CDK to write 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**