Jonah Lipsky

jonahlipsky@gmail.com // (774) 392-2493
LinkedIn, Github, Portfolio: https://linktr.ee/jonahlipsky

SKILLS

Languages, Frameworks and Tools: Python (TensorFlow, Pandas, NumPy, scikit-learn), Ruby (Rails, RSpec, Cucumber), SQL (PostgreSQL, MySQL), JavaScript (TypeScript, React, Redux, Next.js, Node.js), C# (.NET), Java (Maven, Liquibase), Go, GraphQL, R, HTML, CSS

Cloud and DevOps: Amazon Web Services (RDS, SQS, S3, ECS, EC2, EKS, MSK, SSM, IAM, Lambda, Cloudwatch, Step Functions), Kubernetes, Docker, Google Firebase, Prometheus, OpenTelemetry, Sumologic, Terraform

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 building a Java application, including APIs, database, Kafka streaming
  - Identified risk due to release timelines and implemented two APIs in C#/.NET to enable MVP delivery
  - Created Arc42 diagrams and docs for database schema, API surface, and Kafka topic messages
  - Designed and implemented DB schema, configuring Java app to use Liquibase for Postgres migrations
- Added monitoring and reliability measures using Prometheus for a service written in Go
- POC'd a Lambda-based Kafka stream processor, involving scaling estimates, pricing, and networking
- Implemented an asynchronous workflow management solution for long-running backgrounded jobs
- Built a caching layer to maintain state so that a high-volume workflow could execute more quickly
- Used AWS CDK to write monitoring dashboards in code and deployed them to production

Senior Applications Engineer, Medidata Solutions   **Apr 2021 - Apr 2023**
- 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
- 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
- Implemented APIs, data models, DB schema, caching, and notifications for a feature I designed
- Guided two engineering teams on a feature shifting the core data model of a high volume legacy app

Applications Engineer, Medidata Solutions   **Apr 2019 - Apr 2021**
- Led the feature delivery of a user landing page that allowed customers 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 three 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
- Ran core aspects of a 5-year clinical trial, including participant enrollment, diagnosis, and assessment

EDUCATION

Harvard University: Extension School, Cambridge, MA. Transcript   **Spring 2023**
Coursera Math for Machine Learning (3 courses), Machine Learning (3 courses)   **2020-2022**
App Academy, New York, NY.   **Nov 2018 — April 2019**
Bennington College (BA), Bennington, VT. Concentrations: Psychology & Drama   **2008 - 2013**