

Jonah Lipsky

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

[LinkedIn](#) // [Github](#) // [Portfolio](#)

Brooklyn, NY

EXPERIENCE

Staff Applications Engineer

Medidata Solutions, a Dassault Systèmes company

April 2023 - Present

- *Team leader of 5 other engineers building a new Java-based, Kafka-integrated service on a deadline
- *Implemented two APIs in C#/.NET in the oldest and most important app at the company
- *Organized design discussions across departments to deliver a new service supporting 2 important apps
- *Created designs and architecture documentation using the Arc42 conventions and the C4 diagramming model
- *Coordinated code implementation in 3 languages (Ruby, C#, Java) across 6 repositories and 3 departments
- *Mentored 3 junior engineers and collaborated with two other senior engineers via code review and pairing
- *Added Prometheus metrics to a service written in Go and contributed to three Go repositories via code review
- *Conducted a proof of concept for a Lambda-based approach to handle a high-volume Kafka stream, involving pricing and throughput estimates, creation of Terraform IAC templates, and network troubleshooting.

Senior Applications Engineer, Medidata Solutions

April 2021 - April 2023

- *Trained a deep neural network on a dataset on the order of 10,000 data points, based on production customer data, and achieved strong precision (avg 0.81), recall (avg 0.68) and F1 (0.73) scores for 7 separate predictors
- *Wrote Python scripts using Pandas and scikit-learn to do exploratory data analysis and to train the model
- *Created synthetic features based on an analysis of the shape of the data and exploration of available features
- *Used Snowflake data warehouse to extract and transform data
- *Presented the results to executive leadership and advocated for the expansion of ML at the company
- *Led procurement effort of a Feature Flagging tool: RFP, POCs, pricing negotiations, executive presentations
- *Enabled teams to move from deploying every 1 to 2 months to every 1 to 2 weeks.
- *Decreased feature enablement or disablement time from 20 minutes to an hour to under ten seconds.
- *Spearheaded the rollout of the tool across dozens of teams, including writing internal code to streamline the process, training persons to use the software, and advocating for its expanded use.
- *Trained two junior engineers on performance and scalability approaches for refactoring a high-volume application
- *Advised two India-based engineering teams on a cross-service feature via pairing and code review
- *Created a ruby gem for coordinating container autoscaling based on application metrics and deployed it to production

Applications Engineer, Medidata Solutions

April 2019 - April 2021

- *Led the implementation in one repository of a mission-critical feature as part of a multi-department initiative
- *Designed and implemented custom AWS ECS auto-scaling for > 10 services in an application serving >1 million users
- *Worked with a team of 4 engineers to maintain, develop, and deploy three codebases serving >1 million users
- *Used TDD (RSpec) and BDD (Cucumber) methodologies to write automated tests in a Rails app.

Lab Manager and Research Assistant

The Clinical and Affective Neuroscience Lab at Brown University

Jan 2014 — May 2018

- *Hired and managed 50+ undergraduates and graduate students working on more than 15 projects over 3 years.
- *Created automated graphs using R to display clinical progress over time for 75+ participants in a 3-year trial.
- *Computed statistics for, and co-authored, a publication from a clinical trial that included over 100 individuals.
- *Managed over 20 related spreadsheets combining data from nearly 200 academic papers for a meta-analysis which led to 3 peer reviewed papers (see citations below).

SKILLS

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

Cloud and DevOps: Kubernetes, Docker, Amazon Web Services (RDS, SQS, S3, ECS, EC2, MSK, SSM and more), Google Firebase, Prometheus, OpenTelemetry, Sumologic, Terraform.

Software Architecture Microservices Architecture, Software System Design, Arc42 Architecture Standard, C4 Diagramming Model, Mermaid Diagramming Language.

EDUCATION

Harvard Extension School, Cambridge, MA (attended online). **Spring 2023**
Relevant Coursework: Discrete Mathematics for Computer Science (Grade: A)

Coursera Online **2020-2022**
[Mathematics for Machine Learning Specialization](#) (3 course), [Machine Learning Specialization](#) (3 courses).

App Academy, New York, NY. **Nov 2018 – April 2019**
Full-stack Coding Bootcamp with <3% acceptance rate. 1000 hour software development course that focuses on full-stack development and teaches React, Javascript, Ruby on Rails, SQL, Redux, TDD, algorithms, design patterns, and best practices.

Bennington College (BA), Bennington, VT. Concentrations: Psychology & Drama **2008 - 2013**
Relevant Coursework: Introduction to Computer Science using Python, The Creation of Statistics using R

ACADEMIC PUBLICATIONS AND POSTERS

Britton WB, Desbordes G, Acabchuk R, Peters S, Lindahl JR, Canby NK, Vago DR, Dumais T, **Lipsky J**, Kimmel H, Sager L, Rahrig H, Cheaito A, Acero P, Scharf J, Lazar SW, Schuman-Olivier Z, Ferrer R, Moitra E. (2021) From Self-Esteem to Selflessness: An Evidence (Gap) Map of Self-Related Processes as Mechanisms of Mindfulness-Based Interventions. *Frontiers of Psychology*. ([Link](#))

Hoge EA, Acabchuk RL, Kimmel H, Moitra E, Britton WB, Dumais T, Ferrer RA, Lazar SW, Vago D, **Lipsky J**, Schuman-Olivier Z, Cheaito A, Sager L, Peters S, Rahrig H, Acero P, Scharf J, Loucks EB, Fulwiler C. (2021) Emotion-related constructs engaged by mindfulness-based interventions: A systematic review and meta-analysis. *Mindfulness*. ([Link](#))

Eichel K, Gawande R, Acabchuk RL, Palitsky R, Chau S, Pham A, Cheaito A, Yam D, **Lipsky J**, Dumais T, Zhu Z, King J, Fulwiler C, Schuman-Olivier Z, Moitra E, Proulx J, Alejandre-Lara A, Britton WB. (2021) A Retrospective Systematic Review of Diversity Variables in Mindfulness Research, 2000–2016. *Mindfulness*. ([Link](#))

Britton WB, Davis JH, Loucks EB, Peterson B, Cullen BH, Reuter L, Rando A, Rahrig H, **Lipsky J**, Lindahl JR. (2018) Dismantling Mindfulness-Based Cognitive Therapy: Creation and validation of 8-week focused attention and open monitoring interventions within a 3-armed randomized controlled trial. *Behaviour Research and Therapy*. ([Link](#))

Lipsky J, Acero P, Cho L, Kreidler P, Zhu Z, Britton WB (2017) Where is your (Mind)fulness? It Matters for Sleep. Society for Affective Science Annual Conference. Boston MA, April 27-29, 2017. (Poster Presentation)

Lipsky J, Acero P, Cho L, Kreidler P, Zhu Z, Britton WB (2017) Where is your (Mind)fulness? It Matters for Sleep. Association for Psychological Science Annual Convention. Boston MA, May 25-28, 2017. (Poster Presentation)