

Aditya Saravanan

Seeking opportunities in computer science & mathematics

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Location: Santa Rosa, CA

Education

August 2019 - May 2023

University of California, Berkeley

B.A. Computer Science, B.A. Applied Mathematics

GPA: 3.9/4.0

Computer Science Coursework: Structure and Interpretation of Computer Programs, Data Structures, Machine Structures, Artificial Intelligence, Efficient Algorithms and Intractable Problems, Operating Systems and System Programming, Computability and Complexity, Computer Security, Combinatorics and Randomized Algorithms

Mathematics Coursework: Multivariable Calculus, Discrete Mathematics and Probability Theory, Linear Algebra, Abstract Algebra, Real Analysis, Numerical Analysis, Complex Analysis

Experience

Feb. 2023 - May 2023

Software Engineering Intern, *Lawrence Berkeley National Laboratory*

Utilized Go and JavaScript to build features for GDG, a CLI which interacts with the Grafana API. Developed backup and restore functionalities for dashboards, data sources, and other entities, enabling users to store and recover Grafana configurations.

May 2022 - Jan. 2023

Blockchain Engineer, *Evmos*

Developed the Ethereum Virtual Machine and interoperability components for Evmos, a blockchain with ~\$1B chain value built using Go and Python. Drove research, design, testing, and deployment of several protocol-level features, including automated coin conversion over Inter-Blockchain Communication.

Jan. 2021 - Jan. 2022

Undergraduate Researcher, *UCSF Bender Lab*

Generated data for a project which used machine learning algorithms to fit neuronal models to electrophysiological data. Created models in the NEURON language, optimized a Python codebase for neuronal simulations, managed high-performance dependencies using NERSC's Cori supercomputer, and visualized result data.

Aug. 2021 - Dec. 2022

Student Coach, *Haddee*

Tutored groups of up to ten college students in Multivariable Calculus, Linear Algebra, Probability Theory, Python, and Algorithms. Customized lessons, promoted collaboration, and maintained progress records, resulting in improved performance.

Jan. 2020 - May 2021

Tutor & Academic Intern, *UC Berkeley EECS Departmental Staff*

Helped run office hours and lab sections for the Python, Java, and C-based undergraduate courses in Berkeley's EECS department.

Skills

Main Languages: Python, Java, C, Go, JavaScript, MATLAB, R, MySQL

Other Competencies: Bash Scripting, Docker, Protobuf, CI/CD, Version Control