

# Aditya Ramaakrushnan

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## EDUCATION

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### University of California Berkeley

Berkeley, CA

Bachelors in Computer Science — GPA: 3.736

Aug 2019 – May 2023

- **Relevant Courses:** Operating Systems and Systems Programming, Optimization Models in Engineering, Computer Security, Artificial Intelligence, Data Structures, Efficient Algorithms and Intractable Problems, Discrete Math and Probability, Computer Architecture, Principles of Data Science, Structure and Interpretation of Computer Programs, Designing Information Devices and Systems, Linear Algebra and Multivariable Calculus

## EXPERIENCE

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### Visa

May 2021 – August 2021

#### Software Engineering Intern

Remote

- Developed Kafka streams jobs to filter and map authorization requests for a new billing feature.
- Updated server metrics by making API calls to internal endpoints, fixed Grafana dashboards by writing PromQL queries, and resolved critical code smells by refactoring.
- Used Java, Apache Kafka, and Spring Boot to add internal tags to log files based on multiple environment and server variables, and leveraged MicroMeter to expose Kafka metrics to Prometheus.

### IEEE (UC Berkeley Branch)

February 2021 – May 2021

#### Committee Officer and Software Developer

Remote

- Created REST endpoints that authenticated users using Google OAuth and used Node Session Storage to keep sessions alive for valid users.
- Worked on the backend for the UC Berkeley Startup Fair website, which ingested sign-up requests from 50+ attendees, managed student authentication, and updated a MongoDB database.
- Developed scripts to parse and serialize NGINX files asynchronously.
- Worked with Node.js, JavaScript, JQuery, and MongoDB.

### Computational Approaches to Human Learning Lab

February 2021 – May 2021

#### Research Assistant and Software Developer

Remote

- Worked under prof. Pardos on the AskOski platform, which helps Berkeley students plan classes and hit graduation requirements.
- Automated the process of fetching campus data and updating AskOski's database and machine learning models.
- Fixed bugs in the Flask backend by writing SQL queries and re-factored existing Python code.

### Beehive

August 2020 – May 2021

#### Software Developer

Remote

- Utilized user feedback to lead development in fully revamping, Beehive, UC Berkeley's official undergraduate research matching platform, according to UI/UX specifications.
- Implemented routes to connect Ruby on Rails backend with React frontend.
- Integrated search capabilities into the existing dashboard, enabling users to filter research positions by categories.

### UC Berkeley EECS Department

January 2020 – May 2020

#### Lab Assistant

Berkeley, CA

- Assisted TAs during lab for CS61A, UC Berkeley's first core computer science class.
- Assisted students by answering questions, reinforcing topics taught in lecture, and helping with course assignments

## PROJECTS

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### Gitlet | *Java*

- Designed and developed Gitlet, a version control system with the core functionalities of Git.

### NumC | *C, Python*

- A python package that uses SIMD instructions to perform parallel matrix operations up to 300 times faster than naive implementations.

## TECHNICAL SKILLS

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**Languages:** Python, Java, C, Go, JavaScript, SQL, HTML/CSS

**Tools and Frameworks:** Git, React, Node.js, Spring Boot, Apache Kafka, Flask, Angular, MongoDB, pandas