

Agam Jolly

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Education

University of California, Berkeley

Aug 2019 - May 2023

Bachelor's in Computer Science, CS Scholars Program

- Major GPA: 3.733/4.000
- Relevant Coursework: Functional Programming, Data Structures, Machine Structures, Advanced Algorithms, Software Architecture and Design, Discrete Math, Data Science, Probability Theory

Technical Skills

Languages: Python, Golang, JavaScript, Rust, Java, PHP, Bash, C/C++, SQL, HTML/CSS

Technologies and Frameworks: Flask, Node.js, Express, React, Django, Pandas, MongoDB, Kafka, Laravel

Infrastructure: Docker, Apache, Digital Ocean, AWS (S3, EC2), NGINX, GCP, Git

Experience

TikTok

May 2021 - Present

Software Engineer (Intern)

Mountain View, CA

Technologies: Golang, TypeScript, React, Hive/Hadoop, AWS (EC2)

- Collaborating with other engineers to build a scalable shopping ads platform using applied machine learning.

UC Berkeley School of Law

May 2020 - Present

Software Engineer

Berkeley, CA

Technologies: React, Laravel (PHP), Flask, SQL, AJAX, JavaScript

- Improved user experience by redesigning the class scheduling app, leading to a smoother enrollment process.
- Streamlined the internal seating software system used by alumni and students at scale by developing an automated pipeline for organizing student metadata from scratch, deployed on a private cloud.
- Directed group meetings and coordinated with 3 different teams to inspect API endpoints and restrictions.
- **Highlight: Decreased scheduling load times by over 40%, resulting in much higher student satisfaction.**

Eli Sleep

Jun 2018 - Oct 2019

Software Engineer

Chicago, IL

Technologies: JavaScript, C, React Native, AWS (S3, EC2)

- Led and founded a team of 3 people with hardware, software and sales expertise to build a sleep-tracking plush toy that allows parents to rectify pertinent sleep-related issues in children and toddlers.
- Conducted market research, mock trials and user testing to analyze market fit and cross-compatibility across web and mobile devices, powered by a convolutional neural network that achieved an accuracy of 92%.
- **Highlight: Raised and exited with \$130k in VC-seed funding at MIT LaunchX incubator.**

Projects

Covidplasma.in

June 2020

Technologies: Flask, Pandas, TinyDB, Docker, Digital Ocean

- Designed a full-stack, responsive dashboard that connects COVID-19 patients to survivors for plasma therapy.
- Engineered a location-based platform, matching donors to patients based on blood type preferences.
- **Highlight: Amassed 50,000 views/day during the peak of the coronavirus pandemic in August 2020.**

FindMeParking.space

January 2020

Technologies: Flask, React, Node.js, GCP, HTML/CSS.

- Worked on a cross-platform app that provides a B2C-style marketplace for users to list and rent parking spots.
- Leveraged Google Cloud Platform's geo-location API scope to embed accurate map locations for listings.
- **Highlight: Overall winner at HackDavis 2020; domain and hosting sponsored by Domain.com.**