Agam Jolly

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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
Software Engineer (Intern)
May 2021 - Present
Mountain View, CA
Technologies: Golang, Python, Node.js, Express, React, Kafka, AWS (EC2).

- Collaborating with other engineers to build a scalable ads infrastructure platform using machine learning and AI.

UC Berkeley School of Law
Software Engineer
May 2020 - Present
Berkeley, CA
Technologies: React, Laravel (PHP), Flask, SQL, AJAX, JavaScript.

- Improved user experience by redesigning the class scheduling app **decreasing load times by 40%**, resulting in a much smoother enrollment process and higher student satisfaction.
- 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.

Eli Sleep
Software Engineer
Jun 2018 - Oct 2019
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.**

Education

University of California, Berkeley
Aug 2019 - May 2023
Bachelor's in Computer Science, CS Scholars Program

- Major GPA: 3.68/4.00
- Relevant Coursework: Functional Programming, Data Structures, Machine Structures, Advanced Algorithms, Software Design, Discrete Math, Data Science, Probability Theory