SAIM AHMAD

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EDUCATION

University of California, Los Angeles — Los Angeles, California
B.S in Computer Science; GPA: 3.73 — Graduating Jun. 2025
- Relevant Coursework: Neural Networks and Deep Learning, Operating Systems, ML/AI, Algorithms and Complexity, Computer Systems Architecture, Computer Networking, Advanced Data Structures

TECHNICAL SKILLS

Languages: Python, Javascript, Typescript, Golang, C/C++, Java, Node.js, Express, Bash scripting, jQuery
Tools/Technologies: React, Next.js, Tailwind CSS, SQL/NoSQL Databases, FastAPI, Grafana, Kafka
Developer Tools: Git, AWS, Docker, Kubernetes, Google Cloud, Jenkins, Spinnaker, Screwdriver CD

EXPERIENCE

Yahoo — Jun. 2023 – Present
Software Engineering Intern — Playa Vista, California
- Designed and implemented a Screwdriver pipeline to efficiently extract and delete stale images and their signatures from a Docker registry and S3 bucket, significantly reducing operational expenses by approximately **65%**.
- Introduced effective load management techniques to handle over a terabyte of data, leveraging AWS SQS for optimal performance.
- Enhanced functionality by integrating a delete endpoint into a Golang API, enabling seamless removal of objects from S3.
- Developed a comprehensive test suite to ensure robust functionality and the ability for different critical services to handle high-volume traffic effectively.

ELFIN CubeSat — Oct. 2021 – Present
Software Developer — Los Angeles, California
- Architected an end-to-end React web application written in Typescript coupled with a FastAPI backend that shifts the ADCS pipeline away from a CLI into a comprehensive GUI, enabling scientists to efficiently verify, generate, and model multiple satellites' second resolution attitude data.
- Designed and implemented a dashboard to visualize telemetry data to assist with mission operations and verify generated maneuver data for the NASA funded mission.

Bruinwalk — Aug. 2021 – Jan. 2023
Software Developer — Los Angeles, CA
- Transformed and optimized a **30,000-line** web application, transitioning from Django, HTML, CSS, and JavaScript to a modular React.js framework, enhancing scalability and component reusability.
- Deployed code to UCLA's premier class review website utilized by **50,000+** students annually.
- Automated system to scrape **75+** unique departmental websites to aggregate professor photos.

DIRECTV — Jun. 2022 – Sep. 2022
Backend Engineering Intern — Remote
- Redesigned an outdated location microservice for regional data mappings in the stream authentication pipeline, achieving enhanced processing speed through strategic parallelization
- Validated the service's capability to handle over **1,500 transactions per second** by implementing comprehensive automated and unit tests, ensuring data integrity and usability.
- Reduced the code footprint and provided documentation, offering better code maintainability in the future.

PROJECTS

Sorting Algorithm Visualizer — Website | Github
- Customized a React application to visualize sorting algorithms such as merge sort, quick sort, radix sort, and more
- Enabled adjustable sorting speed and array length; integrated responsive size adjustment to differing array lengths