Ali Sao

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EDUCATION

University of California, Irvine **June 2027**

B.S in Computer Engineering

- *Relevant Coursework: Data Structure and Algorithm, Operating System, Computer Networks, Software Engineering, Databases, AI/ML*

Technical Skills

Programming Languages : *JavaScript/TypeScript, Python, C/C++, Java, SQL, HTML/CSS*

Framework/Tools: *React, Node.js, FastAPI, Jest, Selenium, Cucumber.js, PostgreSQL/MySQL, Docker, Kubernetes, NGINX*

Experience

Full Stack Software Engineering Intern **Irvine, CA**

Panasonic Avionics Corporation *06/25 - 09/05/2025*

- **Engineered and shipped** the first fault export interface for Panasonic's Maintenance GUI using the **company's internal JavaScript and CSS frameworks**, delivering a seamless one-click experience for technicians to generate detailed reports directly from live aircraft racks.
- **Developed and deployed an end-to-end fault export API** in C++/JavaScript, enabling accurate retrieval, formatting, and delivery of LRU fault data at scale across multiple airline fleets.
- Integrated frontend with backend services by designing API contracts, translating C++ data structures into JSON, and ensuring fault logs were consistently displayed, styled, and exported in a technician-friendly format.

Undergraduate Research Assistance Software Engineer **Irvine, CA**

Wayne Hayes Lab, UCI *01/25 - Present*

- **Architected and launched a full-stack web interface for SANA** using React, Tailwind, and TypeScript on the frontend with Express.js and Supabase services on the backend, cutting researcher onboarding time from **hours of CLI setup to minutes for 1,000+ global users.**
- Bridged frontend and backend layers by **designing RESTful API routes that connected React/Supabase requests to compute-intensive C++ network alignment jobs**, ensuring accurate delivery of alignment outputs (EC, S^3 metrics) at scale.
- **Deployed and scaled the platform on Ubuntu servers with Nginx,** integrating CI/CD pipelines and **observability tooling (e.g., Datadog dashboards, alerts**) to improve uptime and monitoring of high-load alignment jobs.
- **Elevated usability and reproducibility** by building intuitive UI components and data visualizations in React/Tailwind, while adding error feedback and lightweight monitoring that reduced researcher job-tracking **overhead by 60% and increased successful experiment completions.**

Technical DIrector **Irvine, CA**

Engineering Student Council (ESC) *05/23 - 04/25*

- **Founded and led** the first Tech Team within the Engineering Student Council, scaling to 5 developers and building internal platforms that now support 3,000+ students and 500+ faculty.
- **Built a room booking site from scratch** with a custom calendar component (no external libraries) in **Next.js + TypeScript + Tailwind CSS**, used daily across the engineering body for scheduling rooms and events.
- **Implemented internal authentication** with **Firebase OAuth**, restricting access exclusively to engineering students and ensuring secure role-based usage.
- **Developed backend integrations** for scheduling logic and persistent storage, enabling accurate booking, conflict resolution, and future council continuity.
- **Mentored underclassmen developers** in modern frontend practices, styling systems, Git workflows, and design fundamentals, raising the team's technical bar and ensuring project sustainability.

Projects

Intertale – Indie Film Production Company Website

Skills: React, Next.js, Tailwind CSS, Spring Boot, Full-Stack Web Development

- **Developed and deployed** a production-ready web platform for an indie film studio using React, Next.js, and Tailwind CSS, **boosting audience reach and engagement** through a modern, cinematic browsing experience.
- **Engineered scalable backend services** with Spring Boot and PostgreSQL, **designing APIs for media delivery and content management** that ensured reliable streaming of film and video files.
- **Optimized UI components and implemented dynamic routing**, creating an intuitive interface to highlight films, short projects, and trailers, **increasing site usability and audience interaction**.
- **Collaborated in a fast-paced, iterative environment**, translating loosely defined requirements into shipped features and **adapting quickly to shifting project priorities**.