Kyle Tran

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EDUCATION

University of California, Irvine Irvine, CA
Bachelor of Science, Computer Science (Specialization in Intelligent Systems) Jun 2026
3.85/4.0 Cumulative GPA
- Relevant Coursework: Python Programming, C++ Programming, Data Structures, Computer Organization, Discrete Mathematics
- Awards: People's Choice UCI Design-a-thon 2024, Dean's Honor List Fall Quarter 2023 - Fall Quarter 2024

EXPERIENCE

UC Irvine Office of Information Technology Irvine, CA
Software Engineer Intern Jul 2024 – Present
- Developed **curricular analytics** application for visualizing and **researching complexity of student curricula** using **React**, **Python**, and **AWS S3** to calculate metrics for **SQL Server** database with improved execution speeds of **62.5%** on over **4.17 million** lines of data.
- Deployed **enterprise-grade** websites on Microsoft IIS with **AWS EC2**, utilizing **Nginx** to reverse proxy and load balance secure **HTTPS**/**WSS** connections with self-hosted **FastAPI** endpoints and **aioodbc** for encrypted database communications.
- Implemented user authentication by encrypting data across frontend and backend components, utilizing **salted hash storage** and enforcing **permission-based API endpoint protection**.

Clean Energy Institute Irvine, CA
Undergraduate Website Developer Jul 2024 – Present
- Maintained websites and graphics for 5 research programs using **React**, **GSAP**, and **Bootstrap** to promote colloquiums and YoY studies.
- Migrated **HTTPS** communication from **OpenSSL** self-signed certificates to **SSL**/**TLS** certificates on institutional domains, acquiring compliance and integration with the **Shibboleth Identity Provider** for federated authentication and **Duo SSO** of research faculty.

Taskraise New York, NY
Software Engineer Intern Feb 2024 – May 2024
- Optimized application's collaborative filtering recommendation algorithm—calibrated using over 2,000 task listings from **Supabase**—to suggest similar tasks to users based on location and activity, enabling consumers to discover 10,000 related listings monthly.
- Implemented responsive page components in **React** & **Next.js**, adapting **REST APIs** and **PostgreSQL** queries for marketplace dashboard, resulting in a **48% increase in user retention** during usability testing.

PROJECTS

cublo.app / TypeScript, Supabase Irvine, CA
Full-Stack Developer & Lead Product Designer May 2024 – Present
- Developed **fundraising logistics** and **secure payment** application with organization- and customer-facing interfaces to process and log order information for organizations at Cornell University.
- Built with **React**, **Next.js**, Tailwind CSS, and **Supabase** tech stack utilizing Venmo, Stripe, and Plaid API.

LIFETIMES (DubHacks 2024) / TypeScript, Python, MongoDB Seattle, WA
Full-Stack Developer Oct 2024
- **Awarded 1st Place** for Best Use of MongoDB among 1,100+ participants.
- Designed **software architecture**, frontend, and APIs for **data analytics & visualization** application analyzing dream patterns, providing social wellness insights based on matrix summations of AI-scored data.
- Built with React, Next.js, Tailwind CSS, **FastAPI**, and **MongoDB** tech stack utilizing Okta's Auth0 and Perplexity AI.

Resify (IrvineHacks 2024) / TypeScript, Python, MongoDB Irvine, CA
Full-Stack Developer Jan 2024
- **Awarded 1st Place** for Best Use of Melissa API/Data Sets among 400+ participants.
- Developed **security web app** for homeowners to **authenticate property** online for future tenants utilizing event sponsor Melissa API, whilst providing **reverse verification** through **PGP encryption**.
- Built with React, Next.js, Tailwind CSS, **Node.js,** and MongoDB tech stack utilizing Melissa API.

ORGANIZATIONS

UCI CubeSat Research / Aerospace & Embedded Irvine, CA
Avionics Software Engineer Sep 2024 – Present
- Designed **system architecture** for 2U satellite's **autonomous orbital navigation** on FreeRTOS and **Embedded Linux** using **C++**.
- Programmed satellite realignment using **quadrant photodiode** feedback and **magnetorquers** for **precise attitude control**.

Hack at UCI Irvine, CA
Graphics Organizer May 2024 – Present
- Created web design and theming on a quarterly basis for Orange County's largest hackathons, supporting over 1,000 participants.
- Led team of interns to collaborate on creative vision through iterative research, design, and management.

TECHNICAL SKILLS

- Programming Languages: Python, JavaScript, TypeScript, C/C++, Java, SQL, HTML/CSS, MIPS Assembly
- Frameworks/Libraries: React, React Native, Next.js, Angular, Vue.js, Express.js, Flask, Tailwind CSS, GSAP, REST
- Technologies/Tools: VS Code, JetBrains, Git, GitHub, Node.js, Linux, AWS, Docker, Kubernetes, Nginx, MongoDB, Figma, Tableau, Jira