

Jason Tran – Full Stack Developer

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<https://jasontran-work-portfolio.netlify.app>

Full-stack web developer experienced in building scalable, cloud-native applications with React, Node.js, and Kubernetes on AWS/GCP. Proven record contributing to research prototypes, production-ready applications, and open-source software at startups, labs, and internships. Strong in secure system design, agile teamwork, and delivering production-ready features.

Skills and Accomplishments

- **Full stack:** Over 1 year of experience in full stack development using [React.js](#), [Node.js](#), [MySQL](#), and [PostgreSQL](#) with exposure to microservice architecture and modern CI/CD deployment pipelines.
- **Cloud/DevOps:** [AWS EC2](#), [S3](#), [Google Compute Engine](#), [Docker](#), [Kubernetes](#) | Hands-on experience with Docker containerization and K8 orchestration, utilizing cloud services for scalable cloud infrastructure.
- **Frontend:** Proficient in [HTML](#), [CSS](#), [JavaScript](#), [TypeScript](#), [Angular](#), and [React](#). Developed various websites with responsive design, component-based structure, API integration, and mobile compatibility.
- **Backend:** Experience with [Springboot](#), [Linux](#), [Java](#), [Python](#), and [Node.js](#). Designed server-side web logic, including [RESTful APIs](#) and serverless functions, with JWT/OAuth flows and RBAC to secure endpoints.
- **Databases:** [SQL \(MySQL, PostgreSQL\)](#), [NoSQL \(MongoDB, Firebase\)](#) | Managed cloud-hosted distributed deployments and real-time databases, improving API performance with indexing and [Redis](#) caching (~40%).
- **Leadership:** Managed [agile development](#) across cross-disciplinary teams of 7, driving [Git](#) workflows for version control. Coordinated team-wide collaboration, code reviews, testing suites, and communication.
- Modernized UCI's registration system **with** degree trackers, interactive maps, and custom scheduling.
- Refactored legacy modules of a research platform using automated [TDD](#) to improve performance by ~20%.
- Architected distributed [Java microservices](#) on [AWS Kubernetes](#), with [MySQL](#) handling 1000+ connections
- Engineered a custom search engine architecture indexing 10,000+ pages with <300ms retrieval latency.

Work Experience

Researcher Texera, Irvine

July 2023 - September 2023

Contributed to the public release of a secure AI data analytics web platform within the 10-week timeline by deploying containerized services with Docker and Google Cloud (GCE), solving a core security problem. Refactored internal APIs for public consumption, built an external API gateway to manage container lifecycle. Provided modular service access through a user-friendly WordPress interface, expanding adoption by multiple external dashboards and client applications.

Web Design Internship 87G, Los Angeles

July 2024 - September 2024

Collaborated on the launch of a social e-commerce platform with integrated networking and crypto features. Designed UI components and frontend architecture for community hubs using React, Figma, and Wix Studio, boosting user engagement by +20%. Partnered with backend developers to align crypto APIs. Translated product concepts into accessible interfaces with interactive UX, enhancing inclusivity through WCAG compliance.

Education

B.S. Computer Science | University of California, Irvine
Graduated June 2025 | GPA: 3.94