

# JASON HSU

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## PORTFOLIO & SKILLS

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- **Portfolio:** [jasonhsu14.vercel.app](https://jasonhsu14.vercel.app)
- **Languages:** Python, Java, JavaScript, TypeScript, HTML, CSS
- **Frameworks & Tools:** React.js, Next.js, Flask, Spring Boot, PostgreSQL, Docker, Kubernetes, Git

## PROFESSIONAL EXPERIENCE

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### Viasat, Inc.

Carlsbad, CA

Fullstack Software Engineer

July 2023 - Present

- Enhanced frontend performance and maintainability by reducing code complexity and rewriting features to expand product functionality with React.JS, Redux, and Material UI.
- Implemented automated tests achieving 95% test coverage, significantly reducing manual testing efforts.
- Reduced build time by 60% by replacing npm with pnpm and pruning nested and broken dependencies.
- Designed and developed a scalable and efficient Python CRM backend microservice leveraging gRPC, PostgreSQL, SQLAlchemy, and RabbitMQ, while achieving 98% test coverage.

Software Engineering Intern

June 2022 - September 2022

- Streamlined deployment workflow, achieving a 40% faster CI/CD automation pipeline by implementing a CI/CD pipeline with ArgoCD, K8s, Docker, and GitHub Actions to replace manual deployments.
- Demonstrated the capability of a highly available K3S cluster deployment with minimal downtime.

### Diabetes Design Initiative | UCSD Design Lab

La Jolla, CA

Software Developer

September 2021 - March 2022

- Collaborated with a cross-functional team of designers and health experts to develop a React.js app that streamlines critical information sharing for Type 1 diabetics, enhancing decision-making in emergencies.

### Northrop Grumman

San Diego, CA

Software Engineering Intern

March 2018 - June 2018

- Developed a Python program to automate the monthly scanning of 1000+ CVE security patches and generate comprehensive CSV reports, enabling security engineers to efficiently address vulnerabilities.

## PROJECT HIGHLIGHTS

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### Manga Tracker | Python + Docker (<https://github.com/jhcode14/manga-tracker>)

- Developed a Python web-based manga tracking app to help users organize and monitor manga reading progress and content updates, utilizing Flask, SQLAlchemy, PostgreSQL, and Docker.

## EDUCATION

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### University of California, San Diego

La Jolla, CA

B.S in Cognitive Science - Machine Learning, and Neural Computation

January 2021 - March 2023

- GPA: 3.81 with a Minor in Computer Science