JASON HSU

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PORTFOLIO & SKILLS

- **Portfolio**: jasonhsu14.vercel.app
- **Languages:** Python, Java, TypeScript
- **Frameworks & Tools**: React, Flask, Spring, PostgreSQL, Docker, K8s, RabbitMQ

PROFESSIONAL EXPERIENCE

Viasat, Inc.   **Carlsbad, CA**
Software Engineer   *July 2023 - Present*
- Integrated data streams into a robust data processing and visualization platform for customers to obtain insights from network usage, using Java Spring, Apache Flume, Elasticsearch, Redis, and React/Redux.
- 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, and RabbitMQ, while achieving 98% test coverage.

Viasat, Inc.   **Carlsbad, CA**
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.

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 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

Manga Tracker (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

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