

# Jason Hsu

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## Experience

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### Viasat, Inc.

July 2023 - Present

*Software Engineer*

*Remote*

- Integrated new network metric data streams into existing ETL pipeline and developed RESTful APIs utilizing Java Spring, Apache Flume, Redis, and Elasticsearch for mission critical platforms.
- Designed and implemented microservices for storing and accessing of sensitive customer information by leveraging Python, gRPC, PostgreSQL, and RabbitMQ.
- Led initiative that uncovered and remediated critical design flaws in a widely adopted network data platform, to maintain 99.9% SLA with clients.
- Implemented an intuitive configuration tool for faster deployment and setup of networking hardware using Angular and C++, in collaboration with other teams.
- Reduced frontend pipeline build time by 63% by introducing more efficient build tooling such as pnpm and pruning dependencies.

### Viasat, Inc.

June 2022 - September 2022

*Software Engineering Intern*

*Carlsbad, CA*

- Designed and implemented a scalable CI/CD pipeline with ArgoCD, K8s, Docker, and GitHub Actions, reducing time to deployment by 68%.
- Investigated and tested various K8s distributions for the design of a new system and presented results to technical stakeholders.

### UCSD Design Lab

September 2021 - March 2022

*Software Developer*

*La Jolla, CA*

- Developed a responsive and user-friendly interface using React and JavaScript to assist medical professionals in the diagnosis of diabetic individuals.

### Northrop Grumman

March 2018 - June 2018

*Software Engineering Intern*

*San Diego, CA*

- Created an automated reporting system for security vulnerabilities using Python, compiling over 1,000 new vulnerabilities a day into an easy to read report for the security engineering team.

## Projects & Open Source Contributions

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### Manga-image-translator | *Open Source Contributor*

April 2025 - Present

- Contributed to a community-driven, LLM-powered OCR/image translation tool with 7.3k+ stars on GitHub.
- Implemented batch processing with real-time progress in the React-based web GUI, enhancing usability for high-volume workflows.
- Fixed bugs and participated in issue triaging, helping maintain project quality and user experience.

### Tamago | *Personal Project Owner*

January 2025 - Present

- Developed a content tracker with RESTful Python backend and React frontend to help users track manga reading progress and content updates.
- Integrated rate-limiting and LRU caching to prevent spamming and reduce load on third-party content sites.
- Utilized Selenium for content scraping; APScheduler for periodic content refresh; SQLAlchemy for database interaction.

## Education

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### University of California, San Diego

January 2021 - March 2023

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

*La Jolla, CA*

- GPA: 3.81 with a Minor in Computer Science

## Technical Skills

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**Languages:** Python, Java, TypeScript

**Frameworks:** Spring, Flask, React.JS

**Tools and Databases:** Docker, K8s, RabbitMQ, PostgreSQL, Redis, ElasticSearch