Jason Hsu

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Experience

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

Tamago | *Python, Flask, PostgreSQL, Docker, React* **Jan 2025 - Present**

- Developed content tracker with RESTful Python backend and React frontend to help users track manga reading progress and content updates.
- Implemented rate-limiter and LRU cache to prevent spamming and over-scraping content's site.
- Utilized Selenium for content scraping; APScheduler for periodic content refresh; SQLAlchemy for database interaction.

Education

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

Languages: Python, Java, TypeScript
Frameworks: Spring, Flask, React.JS
Tools and Databases: Docker, K8s, RabbitMQ, PostgreSQL, Redis, ElasticSearch