JASON HSU

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OBJECTIVE

Eager Software Engineer seeking a challenging role in a dynamic and collaborative environment. Highly motivated to learn and contribute to innovative projects with a positive impact. Possesses a strong work ethic and a passion for continuous improvement.

WORK EXPERIENCE

ViaSat, Inc.   July 2023 - Present
Full-Stack Software Engineer   Carlsbad, CA
- Frontend:
  - Enhanced frontend performance and maintainability by reducing code complexity by rewriting features as we expanded product functionality with React.JS, Redux, and Material UI.
  - Implemented automated tests achieving 95% test coverage to significantly reduce manual testing efforts.
  - Reduced build time by 60% by replacing npm with pnpm and pruned nested and broken dependencies.
- Backend:
  - Designed and developed a scalable and efficient Python CRM backend microservice leveraging PostgresQL, SQLAlchemy, and RabbitMQ while achieving 98% test coverage.

ViaSat, Inc.   June 2022 - September 2022
Software Engineering Intern   Carlsbad, CA
- Streamlined deployment workflow with a 40% faster CI/CD automation pipeline by implementing 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 minimum downtime.

Northrop Grumman   March 2018 - June 2018
Software Engineering Intern   San Diego, CA
- Developed a Python program that automates the monthly 1000+ CVE security patches scanning and generates comprehensive CSV reports, enabling security engineers to efficiently address vulnerabilities.

PROJECT HIGHLIGHT

T1D Care Directive (https://github.com/jhcode14/t1d-fall2021)
- Co-developed React.js app with UCSD Design Lab to streamline critical information sharing for Type 1 diabetics, leading to more informed and safer decisions in urgent situations.

EDUCATION

University of California, San Diego   Jan 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
- Courseworks: Advanced Data Structures (C++), Computer Organization & System Programming (C), Supervised and Unsupervised Machine Learning (Python), Modeling & Data Analysis (Python).

PORTFOLIO & SKILLS

- **Website**: jasonhsu14.vercel.app
- **Languages**: Javascript/Typescript, Python, Java
- **Technologies**: React.js, Next.js, Java Spring, PostgreSQL, Docker, Kubernetes, Git