

JASON HSU

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OBJECTIVE

Make a meaningful impact and grow in the field of software development as an engineer.

PROGRAMMING LANGUAGES AND SKILLS

- **Languages:** Python, Java, JavaScript/HTML/CSS, TypeScript
- **Technologies:** Kubernetes, Docker, ArgoCD, OpenStack, Unix/Linux, React.JS, Next.JS, Node, Git,
- **Methodologies:** Agile, Scrum

WORK EXPERIENCE

ViaSat, Inc.

June 2022 - September 2022

Software Engineering Intern

San Diego, CA

- Improved the current ongoing project's development speed significantly by automating the process of pushing code, building Docker image and configuration files, and deploying the updated image.
- Implemented a CI/CD automation pipeline using Kubernetes, Docker, GitHub Actions, and ArgoCD.
- Implemented a Highly Available K3S Cluster deployment demo setup with minimum downtime.

Northrop Grumman

March 2018 - June 2018

Software Engineering Intern (High School Program)

San Diego, CA

- Created a Python script that extracts 1000+ Common Vulnerabilities and Exposure security patches each month and exports an organized CSV format report for security engineers to review.

COLLABORATIVE PROJECTS

Type 1 Diabetes Care Directive (<https://github.com/jhcode14/t1d-fall2021>)

- Affiliated with UCSD Design Lab. I closely work with UI/UX team and Type 1 diabetes patients to create safer and more efficient communication between doctors and Type1 diabetes patients in an emergency.

Heart Disease Detection (https://github.com/jhcode14/Heart_Disease_ML_Detection)

- Performed Exploratory Data Analysis and predicted the chance of a patient having heart disease with Logistic Regression, K-NN, simple Neuro Network, and Random Forest Algorithm.

PERSONAL PROJECTS

Personal Webpage (<https://jhcode14.github.io/personal-webpage/>)

- Developed my front-end static web portfolio using JavaScript, Typescript, React.js, Next.js, and Node.js.

VOLUNTEERING

UCR School of Medicine Stroke Lab Research

July 2019 - September 2019

Research Assistant

Riverside, CA

- Assisted research on Neuregulin-1, a molecule that helps patients recover from an ischemic stroke.

Kaiser Permanente Hospital

September 2019 - March 2020

Emergency Department Care Ambassador

Riverside, CA

- Learned to quickly adapt to new situations and manage time efficiently to best support doctors and nurses.

EDUCATION

University of California, San Diego

Jan 2021 - March 2023

B.S in Machine Learning and Neural Computation; Minor in Computer Science

- Coursework: Data Structures and Algorithms (Java), Supervised and Unsupervised ML (Python)
- GPA: 3.82 with Provost Honors