

DAPHNE WU

(503) 724 - 3688 | daw010@ucsd.edu | US Citizen | [GitHub](#) | [LinkedIn](#)

EDUCATION

University of California, San Diego | *La Jolla, CA*

Sep 2021 – Jun 2025

B.S. Cognitive Science spec. Machine Learning & Neurocomputation, Computer Science Minor

(GPA: 3.82)

- **Relevant coursework:** Data Structures, Object-Oriented Programming, Operating Systems, Introduction to Machine Learning, Supervised Machine Learning Algorithms, Data Science Principles

WORK EXPERIENCE

Fullstack Software Engineer Intern

Sep 2024 – Present

NanoMood Tech

San Diego, CA

- Developing a web application integrated with wearable devices, data pools, and surveys to display user health data and diagnostics, interfaces with machine learning algorithms to support the discovery of digital biomarkers for psychiatric diseases, using MongoDB, Express, NodeJS, React
- Architected and implementing back-end schemas and APIs to streamline data flow and support integrations with AWS services, including EC2, Lambda, and SES, ensuring security (HIPA compliance), scalability and reliability
- Leading full-stack development from UI/UX design to deployment, delivering a robust, user-friendly interface that supports advanced data analysis and visualization for clinicians and researchers

Software Engineer Intern (Production Technology Studio Tools)

Jun 2024 – Sep 2024

Walt Disney Animation Studios

Burbank, CA

- Proposed and developed solution for porting Pixar's InfinityCanvas into Disney infrastructure, increasing storyboarding efficiency for creative directors via digital canvas tool compatible with iOS, MacOS, Apple TV
- Integrated API endpoints, NGINX configurations, and WebSocket server with SwiftUI to handle application server-side asset management, allowing for seamless media updates for real-time collaboration
- Collaborated with Disney Research teams to investigate future integration of machine learning features

Software Engineer Intern/Co-op

Jun 2023 – Jun 2024

Vail Systems, Inc.

Chicago, IL

- Developed and deployed Go service, CLI, and API tools that reliably streamlined and enhanced the security and efficiency of Kubernetes network policy creation for existing company platforms
- Monitored and collected over 1.2 billion network trace request logs in company cluster applications and platforms using eBPF, Elasticsearch, Prometheus/Grafana, FluentD, Kibana, and ArgoCD to enhance network security
- Utilized containers in Linux kernel context to create app containers using docker files and Helm Chart/Helmfiles
- Leveraged Kubernetes Krew and makefile to write release plugins and resolved over 50 tickets in Jira/GitLab
- Created Jenkins files and pipelines for building Docker images for log collection tool and network-policy-API

PROJECTS

Successorator Task Tracker | *Java, Android Studios*

Jan 2024 – Mar 2024

- Task management application designed to help users focus on their Most Important Tasks (MITs) for the day
- Features include entering multiple MITs, tracking and reclassifying completed tasks, date display, automatic unfinished task rollover, persistent MITs, and UI Mock to test date-related functionalities

EXTRACURRICULARS

Women In Computing | *General Member*

Oct 2021 – Present

- Collaborated with teams of students across various STEM fields to build projects in workshops and hackathons
- Organized meet-ups, workshops, and mentorship programs to promote Women in STEM
- Competed in a club-wide programming competition and placed in the Top 30

Triton Robotics | *Computer Vision Software Engineer Member*

Sep 2021 – Jun 2023

- Programmed camera of robot that shoots targets while in motion
- Utilized OpenCV (C++) and Python to analyze camera inputs and find optimal time/angle for robot to shoot targets
- Competed in International Conference on Robotics and Automation RoboMaster AI Challenge and placed Top 25

TECHNICAL SKILLS

- *Programming Languages:* Java, C++, C, Python, Swift (SwiftUI), Go, HTML/CSS, JavaScript
- *Frameworks/Tools:* Elasticsearch, FluentD, Kibana, eBPF, Kubernetes, Docker, Jenkins, Prometheus, Grafana, GitOps, Agile, ArgoCD, Helm, OpenCV, NodeJS, React, Figma, AWS, Adobe Tools
- *Languages:* English, Chinese