

Joanne Chang

joachang@ucdavis.edu ♦ (650) 996 - 9318
Joanne-Chang.github.io ♦ linkedin.com/in/Joanne-Chang

EDUCATION

Computer Science & Engineering, Master of Science
Santa Clara University

Graduation: June 2023

- *Relevant Coursework:* Artificial Intelligence, Data Mining, Computational Creativity, Generative AI, Software QA and Testing

Computer Science & Engineering, Bachelor of Science
University of California, Davis

Graduation: June 2020

SKILLS

Programming Languages: • Python, Java, C, C++, C#, Swift

Tools: • Git, Visual Studio Code, Jupyter Notebook, Unity

EXPERIENCE

Computer Engineering Research Assistant, SCU Robotic Systems Laboratory, Santa Clara, CA

March 2022 - June 2023

- Contributed to the SCU SatOps team's mission control operations by setting up and maintaining ground station equipment, including rotors, microcontrollers, and antennas, as part of a NASA Ames's solar sail mission
- Developed and improved upon software to extract and plot satellite telemetry data from a flat satellite onto the data visualization platform Grafana, resulting in increased accuracy and efficiency of data analysis (*Python*)
- Created documentation and guides to assist current team members (a diverse team of 7 students) and future students in their roles on the team, ensuring seamless knowledge transfer and onboarding

Software Engineering Full-time Intern, KLA, Milpitas, CA

June 2019 - September 2019

- Collaborated with a team of 9 engineers to develop 2 projects involving hardware equipment data (*both in Python*):
 - (1) Process capability index / data analysis software to verify how well equipment meets specification limits
 - (2) Hardware failure date predictor using different machine learning algorithms, specifically generalized linear models
- Conducted code reviews to ensure code efficiency and wrote test programs to validate results
- Presented at daily standup meetings, discussed feature requests with project stakeholders, and presented projects' progresses and results to senior management

PROJECTS

ReFOCUS Chrome Extension, Attention Management Tools (SCU)

May 2023 - June 2023

- Collaborated with a team of 5 students to create a Google Chrome Extension that focuses on redirecting users' attentions more productively while online via website rerouting (*HTML, CSS, JavaScript*)
- Designed, implemented, and connected frontend aspects with backend services to ensure a seamless and responsive user experience that garnered positive feedback from beta testers
- Extended the project post-deadline into a personal project for further development

PointSwap (pointswap.glitch.me), Hack for Humanity (SCU)

February 2023, January 2024 - Present

- Led a team of 4 students to develop a webapp for SCU students to request food and drinks, or fulfill the requests of other students using their extra dining points (*HTML, CSS, JavaScript*)
- Allocated tasks and collaborated closely with team members to ensure a functional and user-friendly web interface, with an individual primary focus on the backend (through implementation of a SQL database)
- Successfully converted the project into a long-term project after the hackathon, utilizing Git for version control

AGGIE Dish App, Senior Design Project (UC Davis)

January 2020 - June 2020

- Worked closely with members of a 4-student team and a mentor to design, develop, and test an iOS mobile app that displays UCD meal menu data in an easily accessible and readable format
- Acquired proficiency in using protocol buffers (via gRPC methods) to access specific eatery and meal menu data from the Firebase database, ensuring efficient data transfer and display on the frontend (*Java*)
- Demonstrated ability to work within tight engineering constraints put on project, including adhering to strict design requirements and going through extensive code review processes