

# Joanne Chang

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## EDUCATION

### Computer Science & Engineering, Master of Science

Santa Clara University

*Starting: September 2021*

### Computer Science & Engineering, Bachelor of Science

University of California, Davis

*Graduation: June 2020*

- ♦ *Relevant Coursework:* Data Structures, Algorithm Design, Probability & Statistical Modeling, Operating Systems, Computer Architecture, Computer Networks, Embedded Systems, Software Engineering, Web Programming

## SKILLS

*Programming Languages:* ♦ Python, Java, C, C++, C#, Swift

*Tools:* ♦ Git, Visual Studio Code, Jupyter Notebook

## EXPERIENCE

### Software Engineering Intern, KLA, Milpitas, CA

*June 2019 - September 2019*

- ♦ Created data analysis software to calculate summary statistics, with an emphasis on process capability index Cpk, of collected server data & wrote a test program to validate results (*both in Python*)
- ♦ Prepped, trained, and tested different linear models using machine learning algorithms to predict hardware part failure dates based on hardware parameter data (*Python*)
- ♦ Attended daily standup meetings, worked with KTTS Engineering department team, discussed feature requests with project stakeholders, prepared for and gave presentations showcasing projects

## PROJECTS

### Aggie Dish App, Senior Design Project

*January 2020 - June 2020*

- ♦ Developed the frontend of an iOS mobile app both programmatically and through storyboard in Xcode (*Swift*)
- ♦ Implemented protocol buffers for app's server API, primarily building various gRPC methods to get specific eatery and meal menu data from Firebase to the frontend (*Java*)
- ♦ Demonstrated ability to work within tight engineering constraints put on the project, including adhering to strict design requirements and going through extensive code review processes

### Password Manager, Computer Security

*May 2020 - June 2020*

- ♦ Created an iOS mobile app that manages passwords to other app accounts on a mobile device (*Swift*)
- ♦ Primarily worked on the "Create New Account" screen, which includes connecting the app to Firebase to both utilize the Firebase Authentication API for user creation and to store new user information
- ♦ Project available here: <https://github.com/ECS153/final-project-j2ve>

### Tweet Counter, Software Engineering

*November 2019*

- ♦ Wrote several functions to count the number of Tweets based on different criteria (*Java*)
- ♦ Functions comb through a .csv file of collected Tweets and parses Tweets using AST visitors

### IFTTT to Twitter, Embedded Systems

*May 2019*

- ♦ Modified a CC3200 LaunchPad with circuits and uploaded code to decode IR signals from an IR remote to alphanumeric symbols that can be outputted to an on-board OLED display screen (*C*)
- ♦ Utilized the REST API to connect the LaunchPad as an IoT device to Twitter using web hooks to send generated messages over the Internet as a form of text messaging

## ACTIVITIES

♦ Member, Davis Computer Science Club (*DCSC*)

*September 2016 - June 2020*

♦ Member, Society of Women Engineers at UC Davis (*SWE*)

*September 2016 - June 2020*