# Joanne Chang

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#### **EDUCATION**

#### Computer Science & Engineering, Bachelor of Science

University of California, Davis

GPA: 34

#### Relevant Coursework

- → Data Structures
- ◆ Algorithm Design
- **◆** Software Engineering
- ◆ Web Programming (ongoing)
- ◆ Probability & Statistical Modeling
- ◆ Computer Architecture
- → Gameplay Programming
- ◆ Computer Security (ongoing)
- ◆ Operating Systems
- ◆ Embedded Systems
- ◆ Computer Networks

## **SKILLS**

Software:

- ◆ Python, Java, C, C++, C#, Swift
- ◆ LaTeX, Chisel, R, MATLAB

#### **EXPERIENCE**

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

June 2019 - September 2019

Expected Graduation: June 2020

- ◆ Developed data analysis software to calculate summary statistics, with an emphasis on process capability index Cpk, of collected server data & 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 - (ongoing)

- ◆ Implemented frontend of an iOS mobile app both programmatically and through storyboard in Xcode (Swift)
- ◆ Frontend code communicates with a server API to retrieve info from a database about menus, hours, and locations of various UC Davis eateries to display on the app
- ◆ App includes options to check eatery hours and location, filter menus by dietary restrictions, and look up food item popularity among the user community

# **Delivering Consequences,** Gameplay Programming

November 2019 - December 2019

- ◆ Developed the animation and visuals of an indie top-down 2D role-playing game using the Unity game engine (C#)
- ◆ Wrote animation scripts for player and non-player character movements
- ◆ Project available here: https://github.com/thenintendodude/Delivering-Consequences-Game

# **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

# Airbnb Price Predictor, Probability & Statistical Modeling

March 2019

- ◆ Devised a linear model that predicts Airbnb rental prices in the San Francisco area (R)
- ◆ Optimized linear model through data analysis using mean absolute percentage error (MAPE)
- ◆ Reduced initial MAPE of about 60 to 45 after four model changes

# **ACTIVITIES**

- ◆ Member, Davis Computer Science Club (*DCSC*)
- ◆ Member, Society of Women Engineers at UC Davis (SWE)

September 2016 - Present

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