

# VANESSA CHANG

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## EDUCATION

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UNIVERSITY OF CALIFORNIA, IRVINE, Irvine, California

**Master of Software Engineering**, 2020 - December 2021 (Expected)

NATIONAL TAIWAN UNIVERSITY, Taipei, Taiwan

**M.S., Mechanical Engineering**, 2018-2020

## TECHNICAL SKILLS

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Front End: HTML, CSS, JavaScript

Back End: Java (Proficient), Python, C++, MATLAB, PHP, MySQL

Framework: Bootstrap, jQuery, ReactJS, NodeJS

## SOFTWARE ENGINEERING PROJECTS

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### Android Stock Simulator Application, 2021

*An Android application in the Java programming language to make a gaming style stock simulator.*

- Implemented Firebase databases to store all purchased stocks, watchlists and user information.
- Used REST API-Alpha Vantage to fetch stock information.

### Android To-do List Application, 2020

*An Android application in the Java programming language to make a to-do list.*

- Implemented SQLite databases to store all to-do lists and their constituent information.
- Created fragments to build tablet and phone versions.

### Enrollment System, 2020

*An application used by students and teachers to manage class schedule and course registration.*

- Used Java to build a window with user interface.
- Implemented MySQL to store the data of courses, teachers and students.

### Webmail System, 2020

*An email system for users to send their emails.*

- Built the server-side using TypeScript, NoSQL databases and REST.
- Created a simple layout using AJAX for the front end to interact with the server-side components.

### Personal Dashboard, 2019-2020

*A personal dashboard for software engineers to use on the daily basis.*

- Built a weather application using PHP and API to search for weather by city.
- Utilized JavaScript to build a rapid-click game to test mouse-click speed as a fun breaktime game.
- Implemented jQuery to build a code display panel that previews JavaScript, CSS and HTML code.
- Made a to-do list using MySQL to help users keep track of their tasks.

## EXPERIENCE

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Intern (Engineering), CORNING INC., Tainan, Taiwan

July 2019 – August 2019

- Researched glass-cutting tools and met with tool suppliers to find the best product to improve the manufacturing process.
- Collaborated with team members to discuss observations and potential pros and cons.

Intern (HR), FORD MOTOR CO., Taoyuan, Taiwan

July 2018 – August 2018

- Analyzed benchmark data, and surveys by employees and managers to determine the level of employee engagement.