

WILSON CHIU

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EDUCATION

University of California, Santa Cruz

Expected June 2021

- Major: Bachelor of Science, Computer Science
- Relevant Coursework: Advanced Algorithms and Data Structures, Operating Systems, Advanced Programming in C++, Computational Models, Applied Discrete Math, Linear Algebra, Computer Architecture

Udacity Full Stack Web Developer Nanodegree

Graduated in September 2019

PROFESSIONAL EXPERIENCE

Amazon | Software Development Engineer Intern

Summer 2020

- Designed and improved internal tool used by engineering and marketing teams to research information on an Amazon Business customer
- Created the tool using AWS Cloudwatch, EventBridge, Lambda, DynamoDB, and Cloudformation that allows developers on-call to quickly isolate a problem in a customer's registration and verification process
Leveraged knowledge in AWS Cloudwatch Events, Lambda, DynamoDB, Cloudformation, Java

UCSC Engineering lab | Front-End Web Developer

September 2019 – Present

- Developing a web application, Causeway, that teaches web development to novices and allows them to contribute to community service projects
- Piloted the development of Compass, a web application that supports users to set and monitor their goals.
- Implemented Angular components in the Tech4Good lab web page and chat feature within Causeway
Leveraged knowledge in Angular, TypeScript, HTML, CSS, Google Firebase

Personal Capital | Software Engineering Intern

June 2019 – September 2019

- Developed 100+ automated front end tests for core product features of Personal Capital using Android Espresso
- Improved Android test coverage from 10% to 75% compared to existing iOS automation tests
- Maintained and updated legacy test cases to new testing framework for Android handset and tablet devices
- Organized new test cases for Android by investigating automated tests on iOS project
- Collaborated closely with developers and QA team to best implement test cases and resolve issues
Leveraged knowledge in Android Espresso, Android SDK, Java, iOS UIAutomation, Objective-C, XCode, Git

Bagito | Software Engineering Intern

March 2019 – June 2019

- Built an Android application that tracks the renting and returning of reusable bags using QR Codes
- Implemented an authentication login system with Flask backend that interacted with Google Cloud SQL
- Coordinated with founder and project stakeholders to establish project specifications and timelines
Leveraged knowledge in Android Development, Python, Flask, Google Cloud SQL, SQLAlchemy, Stripe API

PROJECTS

Ford Focused | Java, Smart Device Link

October 2019

- Produced an Android application that connected to the Ford head unit that monitored the speed limit
- Implemented the HERE Mapping API to find the speed limit of the road the Ford car is on
- Incorporated Ford Sync3 AppLink API to gather data about the Ford car and displayed warnings to the head unit via RPC when the car's speed has surpassed the speed limit

Jirello | Python, JavaScript, Flask, SQLAlchemy, Vagrant, Bootstrap4

September 2019

- Developed a dynamic web application with persistent data storage that provides agile project management
- Created Flask backend using Python that interacted with PostgreSQL database for creating projects and issues
- Established a user registration and authentication system using Google and Facebook OAuth2 & APIs

SKILLS

- Programming Languages: Java, Python, C, Objective-C, HTML5, CSS, TypeScript, JavaScript, SQL
- Technologies: Android Espresso, Flask, Bootstrap4, SQLAlchemy, iOS UI Automation, OAuth2, PostgreSQL
- Software & Tools: Android Studio, XCode, JIRA, Charles Proxy, Git, Google Firestore, SQLite, Figma, Vagrant