ANNE WANG

1B Computer Engineering

University of Waterloo

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LANGUAGES

JavaScipt
HTML / CSS
XML
Java
Swift
Python
C++
C

TOOLS / FRAMEWORKS

Node.js
Mocha / Chai
Sinon
Sentry
Jenkins
React / Redux
Ant Design
Bootstrap
OpenGL / JPCT
Android Studio
XCTest / XCode
KiCad

EDUCATION

University of Waterloo 2023

- Bachelor of Applied Science in Computer Engineering.
- Ranked in the **top 3%** of my class last semester and was awarded **Dean's list.**
- Recipient of the **Faculty of Engineering Scholarship** and the **President's Scholarship of Distinction.**

WORK EXPERIENCE

Software Developer in Test — Jan 2019 - Apr 2019

Mappedin

Node.js

- Developed new features and bug fixes using **Lodash and Joi**, including localization optimization.
- Improved unit test coverage by **10%** using testing frameworks such as **Chai, Sinon, and Nock.**
- Designed and implemented the first **integration test** spanning **5 key products**, allowing developers, for the first time, to test the entire system rather before release than having to deploy on real customer data without any integration testing.
- Added **Sentry integration**, allowing for at least **20** previously unknown errors to be caught and fixed within the first month of use.

Android

- Redesigned and built **UX elements** using **XML** for a sample app shown to current and potential customers demonstrating the features of our **Android SDK.**
- Implemented a heavily-requested **animated pulse feature** using **OpenGL shaders and tweens** which demonstrates to users the direction of the path they should be taking.

Web

- Implemented and improved **UX components** using **React, Redux, and Ant Design** to improve the overall UX of a product.

iOS

- Worked effectively with coworkers to improve unit tests using **XCTest** for new features being added to our **iOS SDK.**

PROJECTS

UWaterloo Rocketry — C, KiCad

github.com/waterloo-rocketry

- Designed code for sensors on a **CAN** (Control Area Network) bus using **SPI** (Serial Peripheral Interface), allowing us to capture critical data during setup and launch.
- Upgraded CAN bus **message system** to ensure that messages aren't lost when transmit buffers are full.
- Efficiently reviewed **PCB** (printed circuit board) designs to ensure that our team stays on schedule while maintaining design quality.
- Assembled PCBs using various methods including **hand and reflow soldering.**

Firemap — JS, HTML, CSS

github.com/yfxu/Project-Firemap

- Develop a **web app** in less than 36 hours capable of calculating and displaying immediate fire risk anywhere around the world.
- Effectively used APIs such as **OpenWeatherMap** to ensure that data is as current as possible.
- Created practical and straightforward displays using the **Google Maps API** and **raster graphics** to ensure that data is easily understandable in critical moments.