

Andrew Siew

✉ andrewsiew2@gmail.com | ☎ 206.954.4796 | 📍 Seattle, WA | andrewsiew2.github.io

Education

University of Washington(UW)

BS IN COMPUTER SCIENCE

Senior

GPA: 3.7

Seattle, WA

September 2016 – March 2020

Skills

Programming: Java, React.js, Redux, Python, TypeScript, JavaScript, C/C++, SQL, C#, Node.js, Go

Coursework: Databases, Advanced Algorithms, Parallelism, Systems Programming, Data Structures, Database Internals

Experience

ICTD Lab @ UW

RESEARCH ASSISTANT/SOFTWARE DEVELOPER

- Worked on the Cold Chain Application project which is funded by **WHO**
- Built the back-end of the application for handling vaccination data using **Python** and **JS**.
- Currently maintaining the application and improving its efficiency to handle more data.
- The application is currently piloted in multiple Ugandan districts.

Seattle, WA

September 2019 – April 2020

Naveego

SOFTWARE ENGINEER INTERNSHIP

- Used **React-Redux-Saga** to create scalable and easily modifiable front-end features such as developer mode.
- Implemented atomicity for **Cassandra** writes and tested it with **Mocks** and **Fakers** in **C#** Unit testing.
- Implemented **Go** commands to standardize git commits, create changelogs and recommend version bumps.
- Connected **Storybook** as a development environment and a way to keep front end components documented.
- Fixed UI bugs during their transition to a new UI.

Traverse City, MI

June 2019 – August 2019

Open Data Kit, Impact++

SOFTWARE ENGINEER

- Currently working with a team to add more features to the open source of ODK with **Android Studio**.
- Added new widgets to the surveying tool to provide a more accurate platform for accurate data collection.
- Working on redesigning their QR Code interface and relocating their legacy features.

Seattle, WA

September 2019 – April 2020

Access Technology Center, UW

ACCESSIBILITY TESTER

- Tested key functional features of notable products such as GCP, MS Word, MS Outlook and ServiceNow.
- Participated in active discussions with the engineers in implementing accessible features to their products.
- Played a role in the development of the newest version of Windows 10, the new MS Word ribbon interface, and Google Cloud Platform's interfaces.

Seattle, WA

August 2018 – June 2019

Personal Projects

Multi-factor RFID Wallet

JAVA, RFID, NFC

- Explored the idea of phone authentication and its vulnerabilities to produce a minimum viable product.
- Stores RFIDs in an e-wallet that gets emitted as NFC signals.
- Has a layer of two factor authentication with biometrics to ensure security.

September 2019 - Dec 2019

Research

Global Goods Software for the Immunization Cold Chain

CO-AUTHOR

- A research that was an extension of my involvement as a research assistant for ICTD@UW
- Researched the difficulties of aggregating data, analysing data from under-resourced countries and how technology can improve on that.
- This research paper is currently being reviewed by the Association for Computing Machinery(ACM) for publication.
- More information regarding this paper can be found on my website.

September 2019 - April 2020