

# Alexander Kim

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## Education

### University of Washington

Bachelor of Science in Computer Science,

Cumulative GPA: 3.7

Related Coursework: Data Structures and Parallelism, Java Programming I & II, Hardware/Software Interface, Linear Algebra, Foundations of Computing I, Social Networking Technologies

Seattle, WA

Expected Graduation Spring 2021

## Technical Skills

### Programming Languages

**Proficient:** Java, HTML, CSS, JavaScript, C

**Familiar:** R, Python, React

**Database:** Firebase, MongoDB

**Software/Tools:** Microsoft Office, Eclipse, IntelliJ, VSC, Vim, Perforce, CCS, QNX, Git, Express

## Relevant Experience

### R&D Software Engineering Intern

Jun 2019 – Sep 2019

Stryker, Redmond WA

- Successfully built a proof-of-concept patient vital signs monitoring sensor that is capable of transmitting patient data **wirelessly** via **Bluetooth** low energy to the company's next generation monitor defibrillator.
- Gained a strong understanding of formal documentation practices through project modeling of **system architectures**, software detail designs, and hardware blueprints.
- Developed **C applications** responsible for making **API** calls to various software stacks, managing **port-based objects** in **hard real-time systems**, and handling interactions within **blackboard architectures**.
- Created **sensor drivers** to read vital signs and implemented **NFC-Bluetooth connection handover**.

### Research Assistant and Webmaster

Apr 2019 – Present

UW Reality Lab, Seattle WA

- Handle any necessary **visual and functional** updates to the lab website as directed by the head administration.
- Researching and developing understanding of **computer vision** through refinement of **PyTorch applications** designed to fit a user's own image into various videos.
- Implemented website scalability for news and lectures through full integration of **WordPress**.
- Created a new **web application** that increased the efficiency of collecting user data that was to be purposed for training a **deep learning model**.

### Student Developer

Oct 2018 – Present

HuskyTech, Seattle WA

- Manage updates to the club website and coordinate with design team for quarterly revamps.
- Oversee the **student resume database** for club sponsors and form new **features** as directed.
- Developing a new application designed to act as a **hub for sponsors and students** to coordinate with attendance and announcements for the Husky Tech Project Showcase program.
- Created a check-in interface using **React and Firebase** to handle future sponsor events and store data such as number of resumes submitted, attendance, and event ratings.

## Projects

### DubsMatch

Oct 2018 – Present

Mobile application designed to pair students at the UW with their ideal club using React Native and Expo as the base framework for implementation and testing along with Python's Sklearn classification model for prediction.

### CrimeVis

Nov 2018 – Dec 2018

Utilized R for the primary data filtering along with Shiny, Leaflet, and MapBox in order to design map visualizations and architect a web application purposed for promoting safety in traveling around Seattle.

### Website Portfolio

Jun 2018 – Sep 2018

Personal website located on UW servers at <http://students.washington.edu/ajk38> and built using HTML, CSS, JavaScript (jQuery), and PHP to store user contact.