

Aaron Tsang

SEEKING SWE INTERNSHIP FOR SUMMER 2021

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Education

University of Washington, Seattle | Class of '22

Seattle, WA

B.S. IN HEALTH INFORMATICS/HEALTH INFORMATION MANAGEMENT

Sept 2018 - June 2022

- **Relevant Coursework:** Foundations of Informatics (*Invision, Figma, R*), Computer Programming II (*Java*), Web Programming (*HTML5, CSS, VanillaJS, Node / Express, RESTful APIs, SQLite*)
- **Cumulative GPA:** 3.53/4.0
- **Quarterly Dean's List:** 3 out of 6 quarters

Experience

Student Accessibility Assistant

Seattle, WA

UW INFORMATION TECHNOLOGY

Sept 2020 - PRESENT

- Identified accessible issues within Mac Outlook's nested compose feature
- Testing and advising UW's COVID-19 information web page for potential usability issues
- Leading collaborations between UW and Mac Outlook, Zoom, Mural and DocuSign for accessible design

iOS Developer

Seattle, WA

HUSKYADAPT/SEATTLE CHILDREN'S HOSPITAL

Mar 2020 - PRESENT

- Developing an iPad application to serve 25+ Cancer Care in-patients, using geocaching concepts to aid in combating effects of chemotherapy. (*SwiftUI, XCode*)
- Building a database, used by all nurses and physical therapists, to track the daily and overall progress of patients' physical activity. (*Firebase*)

Undergraduate Researcher- Bioinformatics Analyst

Seattle, WA

GENETICALLY ENGINEERED MATERIALS SCIENCE AND ENGINEERING CENTER (GEMSEC) RESEARCH LAB

Sept 2019 - Jun 2020

- Narrowed 10,000 candidate peptides down to 3, based on protein compatibility, utilizing various mathematical algorithms and models such as the Resonant Recognition Model. (*Python*)
- Co-writing the documentation of the overall process and results of current project for a scientific journal.

Projects

Huffman Coding

Developed the Huffman Coding algorithm to compress and efficiently save text files by occupying storage based on character frequency. The entire book of Hamlet was compressed down to 54% of its original size in bytes (*Java*)

DAX Services LLC Website

Led a team of 3 students to design a website as a marketing tool for a local business. Iterated multiple high fidelity wireframes based on user research, competitive analyses, and usability tests. On-boarded client to independently modify their website for future needs.

Video Streaming Website

Developed a simple web application to stream videos based on search terms. Data was pulled from Youtube's API to render the top-related videos. (*ReactJS, Semantic-UI*).

Weather iOS App

Developed a mobile iOS application, that is Dark Mode compatible, that utilizes users' current location to track local weather. Also offers a search feature to allow for weather in different cities. (*SwiftUI, SF Symbols*).

Skills

Languages Java · R · Python · JavaScript · NodeJS/Express · ReactJS · SwiftUI

Markup HTML5 · CSS · XML

Other Tools Github · Android Studio · Invision · Figma · Photoshop CC · XCode · SQLite