

Arthur Liu

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Education

University of Washington, Seattle, WA
BS, Computer Science, GPA: 4.00
Direct Admit to Computer Science

Sept 2018–June 2021

Experience

Research Fellow, Giving Tech Labs, Seattle

Sept 2019–Present

- Research and create the AI models used in the voice analysis app for assisting caretakers
- Detected the gender of a speaker using MFCC with over 94% accuracy
- Designed and wrote the underlying class objects used throughout the project
- Developed digital signal processing programs in Python and C to obtain F0 contour and short-time energy that the machine learning models use

Head Grading Undergraduate Teaching Assistant, University of Washington

Jan 2019–Present

- Lead a class of 20+ students twice a week to strengthen fundamental programming concepts including abstract data types, stacks, queues, linked lists, binary trees, recursion, interfaces, and encapsulation
- Encourage and guide students one-on-one at the Introductory Programming Labs, solving problems in Java
- Standardize and ensure that grading is uniform for all TA's

Marketing Intern, CueMed, Issaquah

June 2018–July 2018

- Designed and developed the company's pitch deck, used to pitch their intelligent pill organizer to investors

Activities

Computer Vision Team, Advanced Robotics University of Washington

Oct 2019–Present

- Developing programs to improve prediction and aiming of robots for RoboMaster competition

Web Lead, TedX University of Washington

Oct 2019–Present

- Organizing and hosting TedXUofW as well as building and managing the website development

Projects

Morse Code App, expo.io/@artliu/learn-morse

August 2019

- Created a Morse Code app using Expo toolchain and React Native which teaches morse code through a series of gamified levels

Personal Website, arthurjl.github.io

Jan 2019

- Created a personal website blog from scratch using a static-site generator to host on GitHub.
- Utilized front-end tools (HTML, CSS, Javascript, Liquid) to design a cohesive UI

Investment Analysis, Russell Investments International Case Competition

Nov 2018

- Top 5 Freshman Direct Track
- Created the pitch deck used in our business proposal presentation to a panel of judges.

Skills & Other Experience

Languages: Java, Python, JavaScript, React, C, HTML/CSS,

Other Activities: Kirkland Youth Council, Soccer (Varsity & Club), Viola, Piano

Awards: National Merit Finalist, DubHacks Finalist for Data Track, International Finalist DECA, Top in Country Cambridge AS Level Mathematics