

AINSLEY LAI

Applied Mathematics & Informatics Undergraduate

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📍 Renton, WA

EXPERIENCE

Undergraduate Research Intern

Institute for Systems Biology

📅 June 2022 – August 2022 📍 Seattle, WA

- Working under the Hadlock lab as part of the Summer Undergraduate Research Experiences Program
- Conducted principal component analysis (PCA) with sklearn and pandas on a longitudinal dataset using Google Cloud Compute Engine
- Used pySINDy (symbolic and sparse regression) to build equation models and investigate effects of noise in data analysis and machine learning

Cashier

Albertsons

📅 July 2020 – October 2020 📍 Renton, WA

- Operated POS system and provided customer service

NRFU Enumerator

U.S. Census Bureau

📅 July 2020 – Sept 2020 📍 Tacoma, WA

- Worked with the U.S. Census Bureau to aid the 2020 decennial census Non-Response Follow-Up operation
- Assisted in federal population data acquisition

PROJECTS

Survey of Laser Models

- Academic review paper that explores three different equation models for lasers.
- Link: [Here](#)

U.S. Gun Violence Visualization

- A collaborative data visualization of American gun violence using R-Shiny and tidyverse.
- Website: <https://ainslai.shinyapps.io/info201-af3-groupfinal/>

RELEVANT COURSEWORK

CSE 142/3 – Computer Programming I-II

- Procedural programming, control sequence, objects, and data abstraction/encapsulation using Java

CSE 373 – Data Structures and Algorithms

- Lists, stacks, trees, queues, directed graphs, search/sort

AMATH 301 – Beginning Scientific Computing

- Python for visualization and numerical programming of linear algebra and differential equations using Numpy, Scipy, and Matplotlib

EDUCATION

B.S., Applied Mathematics & Informatics

University of Washington

📅 Sept 2020 – June 2024

Double degree

GPA – 3.92

AAS-DTA, Associate's in Arts & Sciences

Bellevue College

📅 Sept 2018 – June 2020

GPA – 3.92

STRENGTHS

Hard-working

Analytical

Problem Solving

Detail-Oriented

Eager to learn

Team-oriented

SKILLS

Google Suite

Microsoft Office

R

MATLAB

Python

Java

Git/Github

HTML

CSS

Shell Scripting

LaTeX

ACHIEVEMENTS

- Consecutive Dean's List
- Graduated Bellevue College with High Distinction
- Graduated top 7% of high school class

INTERESTS

Technical

- Interest in computational mathematics.
- Data analysis
- Scientific computing
- Mathematical modeling

Extracurriculars

- Applied Analytics Club
- Table Tennis