

## QUALIFICATIONS

- Proficient in Artificial Intelligence methods: Model Development, Classification, Data Visualization, Data Analytics, Data Mining, and ML Algorithms.
- Strong ML skill with demonstrated experience in TensorFlow, scikit-learn, and caret; Tidyverse, pandas, and NumPy; matplotlib and ggplot2.
- Project management and collaborative skills shown through internship positions and extracurricular officer roles
- Programming: Python (moderate), R (moderate), Java (beginner), React (beginner), Node.js (beginner)

## ACADEMICS

**University of Washington**, Seattle, WA

**September 2021 – Present**

- **Bachelor of Science, Computer Science**
- Relevant Coursework (through Spring 2022): Data Structures and Parallelism, Foundations of Computing (I and II) AP Computer Science A, Matrix Algebra with Applications

**Newport High School**, Bellevue, WA

**September 2017 – June 2021**

- Earned Membership to Newport High School's National Honor Society Club

## EXPERIENCES

### Selected Relevant Experience

**Research Intern, Vlachos Non-coding Lab**, BIDMC, Boston, MA

**July 2020 – September 2021**

- Produced a novel deep learning model with Scikit-learn that accurately evaluates cancer in-patient risk for cancer-associated thrombosis, surpassing all existing risk analysis methods by as much as 37%
- Served as main programmer of DL pipeline and heavily collaborated with in-lab post-doctorates to analyze key proteins linked to thrombosis.
- Presented research at the virtual International Society for Thrombosis and Haemostasis Conference 2021.

**High School Intern, Ubicomp Lab**, University of Washington, *Seattle, WA*

**June 2018 – September 2018**

- Created a machine learning model that converts hand-drawn app designs into a workable app in Android Studio
- Part of 3 person prototyping team tasked with data mining app wireframes and producing a frontend web application for the ML model.

### Additional Experience

**Research Intern: Center for Nanofibers & Nanotechnology**, NUS, Singapore

**August 2019 – December 2019**

- Researched novel materials for low-cost river water purification and removal of industrial textile dyes
- Collaborated with local master's student on experiment ideation process and learned effective data collection skills and necessary lab safety skills
- Our novel absorbent reduced dye absorption time from 15 hours (with current techniques) to 15 minutes

**Lead Programmer and Co-Designer, Vex Robotics 815J**, Bellevue, WA

**October 2015 – April 2019**

- 3-time state champions at the Washington Vex state championships for In the Zone, Starstruck, and Nothing but Net with multiple appearances at the World Championship in Louisville, Kentucky
- Designed and programmed autonomous functions of our robot and worked with builders and driver on improving the user experience

**Volunteer Computer Science Teacher, Mission inspirED**, Bellevue, WA

**December 2018 - August 2021**

- Created and taught an Intro to Java curriculum to approximately 100 middle school students over the course of 3 quarters
- Devised multiple online and hands-on coding exercises to stimulate curiosity and growth for novice programmers