

APPLIED COMPUTING MAJOR (COMPUTER SCIENCE) · UNIVERSITY OF WASHINGTON

■ theethan5753@gmail.com | ★ justyeethan.github.io/ | □ justyeethan | □ ethan-yee

Education

University of Washington Bothell, Washington

BACHELORS IN APPLIED COMPUTING (COMPUTER SCIENCE)

Sep. 2019 - Mar. 2023

Sep. 2021 - Present

• Concentration: Data Science • GPA: 3.68/4.00 • Annual Deans List

• Coursework: Algorithms and Data Structures · Statistics · Data Visualization · Data & Society · Technical Writing · Software Engineering · Hardware & Operating Systems · Intro to CyberSecurity · Database Systems

Skills

ENGINEERING INTERN

Programming Python · C++ · Java · Javascript · Bash · SQL · R · React.js · HTML/CSS · NoSQL · Node.js

Concepts Data Structures · Algorithms · Regression Analysis · Data Analytics · Probability · Statistics

Toolkit Jupyter Notebook · Excel · MS Access · Unix/Linux · GitHub · Docker · Tableau · XCode

Work Experience

Apple Inc. Cupertino, California

• Responsible for managing research and development for Daisy's data pipelines and synthetic data generation

- Implemented statistical modeling techniques to improve usability, efficiency, and accuracy of object detection tools
- Developed and refined data pipelines to increase efficiency of Region Based Convolutional Neural Networks by 19%
- Initialized the processes for synthetic data generation for training data and models using Blender and MatLab

 Uptone App
 New Haven, Connecticut

 SOFTWARE ENGINEER INTERN
 Aug. 2021 - Sep. 2021

• Optimized queries from MongoDB and improved responsiveness of the back-end by 33%

- Assisted in the development of Uptone's back-end infrastructure and API directly with the **CEO**
- Liaised with front-end and back-end developers to manage functions and application requirements
- Integrated proper Database Management practices to ensure user data is secured and available

Sensors, Energy, and Automation Laboratory

Seattle, Washington

RESEARCH ASSISTANT Jan. 2021 - Jun. 2021

- Created an Android app using Java that detects food and estimates the calories on a plate based on Convolutional Neural Networks
- Performed regression and time series analysis on unemployment trends using visualization packages in Python
- Assisted in scientific research on the spread of COVID-19 and presented/analyzed the results using Time Series Modeling
- · Presented information and laboratory findings to UW partners and affiliates using Excel, Python, and MATLAB

Sensors, Energy, and Automation Laboratory

Seattle, Washington

Sep. 2020 - Jan. 2021

- Led a team of 3 front-end and 2 back-end developers to create web applications for laboratory projects
- Created and designed a responsive front-end for different laboratory projects using **React.js**
- · Collaborated with back end developers, front end developers, project managers, and laboratory managers to draft technical requirements
- Orchestrated the development lifecycle of a secure API hosted on AWS Amplify with GraphQL

University of Washington

FULLSTACK DEVELOPER (PROJECT LEAD)

Seattle, Washington

COMPUTER SCIENCE & ENGINEERING TUTOR

Sep. 2019 - Jun. 2020

- Courses Tutored: Data Structures & Algorithms · Introduction to Algorithms · Database Management · Data Visualization
- Taught **Data Visualization, DBMS, and algorithms** to struggling students
- Provided supplemental knowledge in computer science topics for undergraduate CSE students
- Prepared course curriculum and visualized problems for 400 level classes

University of Washington

STUDENT ASSISTANT (TECHNICAL SUPPORT)

Bothell, Washington

Jun. 2019 - Mar. 2020

- Modeled and organized over 2 million dollars worth of inventory and costs using Python and Tableau
- Forecast revenue trends for the next fiscal year after the creation of a new parking structure using **linear regression models**
- Performed data wrangling on over 301,463 transactions and 2,000 citation details based on prior parking experiences
- Maintained hardware and software components on parking stations and hand-held parking devices

Projects

Fidelity Stock API Kirkland, Washington

PYTHON · WEB SCRAPING · APPLICATION PROGRAMMING INTERFACE · DATA ANALYSIS

Jan 2021 - Present

- Created an API that scrapes prices, statistics, and other information from Fidelity
- Improved Fidelity analysis results using Python's scikit-learn and Time Series Analysis

Food with Friends

Kirkland, Washington

PYTHON · FLASK · REACT.JS · FULLSTACK WEBSITE · DATABASE MANAGEMENT

Jan. 2020 - Sep. 2020

- Created a fullstack web application that allows people and their friends to match with restaurants
- Implemented Yelp's API, Google's Geo-location API, and a ranking algorithm to curate a list of recommended restaurant for friends