■ theethan5753@gmail.com | # https://justyeethan.github.io/ | ② justyeethan | ■ Ethan Yee

Education

University of Washington Bothell

Bothell, Washington

BACHELORS IN APPLIED COMPUTING (COMPUTER SCIENCE)

Sep. 2019 - Mar. 2023

- 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

ProgrammingC++ · Python · Java · Javascript · Bash · SQL · R · React.js · HTML/CSS · NoSQLConceptsData Structures · Algorithms · Regression Analysis · Data Analytics · Probability · StatisticsToolkitJupyter Notebook · Excel · MS Access · Unix/Linux · GitHub · Docker · Tableau · XCode

Work Experience _____

Apple Inc. Austin, Texas

COMPUTER VISION INTERN Sep. 2021 - Present

- · Responsible for managing research and development life cycle of data generation and data pipelines at Apple
- Used **computer vision** and **statistical modeling** techniques to improve performance, efficiency, and accuracy of object detection tools
- Developed and refined data pipelines to increase efficiency of Region Based Convolutional Neural Networks by 79%
- Present new data and methodologies to increase efficiency for **synthetic data generation** by **24%** to project managers and tech leads

Apple Inc. Cupertino, California

SOFTWARE ENGINEER INTERN

• Managed legacy codebase for iOS applications using Swift, Python, and Node.js

- Assisted in plan-driven development of software products for iOS applications

 Page and ible for managing book and database functionality in Dith an and Node
- Responsible for managing back-end and database functionality in Python and Node.js
- Performed excellent documentation and communication about the code base to Project Managers

Sensors, Energy, and Automation Laboratory

Seattle, Washington

Jun. 2021 - Sep. 2021

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

Fullstack Developer (Project Lead)

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**
- · Liaised 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

Paypal Holdings, Inc.

San Francisco, California

Data Engineer Intern

Sep. 2020 - Dec. 2020

Organized the design of a new Database Management System and led efforts to produce efficient and reliable back-end services

- Optimized data pipeline completions to maximize performance by up to 32% using a JSON API
- Designed a new experimental program that was enabled by multi-thread-able queries, boosting efficiency by 11%
- Maintained reliable data pipelines, and led automation efforts for payroll transactions

Microsoft Corporation SOFTWARE ENGINEER INTERN

Redmond, Washington

Jun. 2020 - Sep. 2020

- Collaborated with a team of four other interns to create new verification and security tools
 Implementing system security hardening guidelines on system Integrity and performing functional testing on systems after security hardening
- Responsible for re-scaling over 64 applications to meet security practices for Windows using C++
- Tested applications and operating system stability against 140+ common Cyber-security attacks

University of Washington

Bothell, Washington

Jun. 2019 - Mar. 2020

- STUDENT ASSISTANT (TECHNICAL SUPPORT)
- 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