Jonathan Yu

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 https://github.com/JonathanY7   in https://linkedin.com/in/jonathanyu2   🌐 Newark, CA

Education

University of California, San Diego   Expected: March 2022
B.S. in Computer Science
GPA: 3.72 / 4.00

Work Experience

Amazon Web Services (AWS) | Software Development Engineer Intern   June 2021 – Sept 2021
Seattle, WA (Remote)
- Merged millions of queryable files, reducing the amount of infrastructure team needs to manage as well as speeding up SQL queries by more than 5x through Python script involving AWS Glue
- Automated weekly SQL queries to gather statistics for team, saving engineer time on a weekly basis through Java and SQL code involving AWS Lambda
- Implemented a design document, wrote unit tests, and published code reviews in an Agile environment

Projects

Autonomous Vehicle Prediction   March 2021 - June 2021
- Designed a motion forecasting machine learning model which predicted positions of vehicles three seconds into the future, given the trajectory of the vehicle for the first two seconds
- Used PyTorch libraries to construct a Long Short-Term Memory Network to train on sequential data
- Achieved an average Root Mean Squared Error value of 2.67471
- Coded with **Python**

Simple Internship Management Platform   March 2020 - June 2020
- Web scraped internship listings off of various websites and uploaded listings to MongoDB database
- Helped design a React.js application helping individuals find internship listings
- Collaborated in a team of 10 individuals to finish a fully functional application
- Web Scraper coded with **Python**

Potentiometer-Controlled Robotic Arm   June 2019 - Sept 2019
- Utilized an Arduino Leonardo board to control four potentiometers attached to robotic arm
- Connected Arduino Leonardo with breadboard and computer for controlling servos on arm
- Coded using **C and C++**

Activities

Website Editor | Circle K at the University of California, San Diego   October 2019 - March 2020
- Updated and managed website, embedded and created forms, and replaced images of old board members
- Collaborated under Product Manager with other front end developers and UI/UX designers
- Coded using **HTML and CSS**

Skills

Languages and Tools:
Java, C, C++, SQL, Git, Bash Scripting,
Python, MATLAB, GNU Octave, R, HTML, CSS,
Haskell, Verilog, ARM Assembly, x86 Assembly
Technologies and Methodologies:
PyTorch, Pandas, NumPy, Vim,
Linux, Windows, iOS, Agile, Waterfall

Awards

- 2nd place at Google UCSD WIC Beginner Programming Competition - Spring 2019
- 5th place at Microsoft UCSD WIC Beginner Programming Competition - Winter 2019
- USACO Silver Division
- Synopsys Science Fair - Honorable Mention