Oliver Vazquez

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Education

Northeastern University
BS in Computer Engineering & Computer Science Dec '21
Boston, MA | GPA 3.67

Relevant Coursework

Computer Architecture*
Artificial Intelligence
Software Development
Networks & Distributed Systems
Object Oriented Design
Computer Systems
Algorithms
Fund. Computer Science I & II
Advanced Digital Logic Design
Indicates Current Enrollment

Skills

Software
Proficient: Python, JavaScript, Java, C++, C
Familiar: SQL, Bash, Verilog, x86 Assembly

Tools & Frameworks:
Proficient: React, Node, Git, Unix, GoogleTest, Behave, JUnit, MySQL
Familiar: Flask, Keras, Figma, Firebase

Honors

Dean's List
Spring '18, Fall '18, Spring '19, Spring '20, Spring '21

Dean's Scholarship
Fall '17

Experience

Portal Instruments
Cambridge, MA / my apartment
Software Engineering Co-op — Jul '20 - Jan '21
- Implemented error handling to prevent unwanted i2c communication shutdowns caused by a falsely detected Electrostatic Discharge event
- Upgraded device logging to correctly parse time-series data and record the device's hardware information
- Improved test coverage using GoogleTest and Behave

New Age Micro
Mansfield, MA
Software Engineering Co-op — Jul '19 - Dec '19
- Built a long term test setup to stress test a communication protocol between programmable logic controllers
- Designed software to exchange continuously generated random numbers between devices, verify their correctness, and log any error occurrences. This software ran successfully for several weeks to demonstrate the protocol's reliability.
- Upgraded outdated test protocols and removed unnecessary tests to greatly reduce the amount of time needed for a full regression test

Northeastern University
Boston, MA
Engineering Co-op — Sep '18 - May '19
- Assisted with fabrication of microscopic magnetic resonators
- Evaluated performance using a MATLAB script and measuring probe

Projects

oliverv.xyz
React Firebase Figma
github.com/olivervz/oliverv — Jun '21
- Designed personal website using Figma and React, deployed using Firebase

feels-like.web.app
React Firebase
github.com/olivervz/feels-like — Jun '21
- Created a weather app using the OpenWeather and HERE Geocoder APIs to display accurate weather data for any location

Pneumonia Neural Network
Python Keras
github.com/olivervz/pneumonia-Neural-Network — May '21
- Implemented Convolutional Neural Network to identify the presence of bacterial and viral Pneumonia in Chest X-rays, achieved an 85% accuracy
- Performed analysis on output to observe a 99.48% true positive rate

Spotify Playlist Generator
React Node.js Spotify API
github.com/olivervz/spotify-playlist-app — Jan '21
- Built an app to provide users with fully random playlist generation
- Utilized the Spotify API to display random playlists to the user before adding them to their Spotify account