

Oliver Vazquez

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Boston, MA

Education

Northeastern University
BS in Computer Engineering &
Computer Science Dec '21
Boston, MA | GPA 3.68

Relevant Coursework

Engineering Capstone*
Database Design*
Logic and Computation*
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,
TypeScript, x86 Assembly

Tools & Frameworks:

Proficient: React, Node.js,
Express, Git, Unix, GoogleTest,
Behave, JUnit, MySQL

Familiar: Flask, Keras, Figma,
Firebase, Heroku

Honors

Dean's List

Spring '18, Fall '18, Spring '19,
Spring '20, Spring '21

Dean's Scholarship

Every semester

Experience

Portal Instruments

Cambridge, MA

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

Computer 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- Upgraded outdated test protocols and removed unnecessary tests to greatly reduce the amount of time needed for a full regression test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

Advanced Materials and Microsystems Lab

Sep '18 - May '19

- Assisted with fabrication of microscopic magnetic resonators
- Evaluated performance using a MATLAB script and measuring probe

Projects

spotify-toolbox.web.app

React Node.js Spotify API Heroku

github.com/oliver.vz/spotify-toolbox

Jul '21

- Built an app to display a user's top artists and tracks, and provide them with custom playlists based on their recent musical tastes
- Utilized the Spotify API to allow a user to upload a generated playlist directly to their account

oliver.vxyz

React Firebase Figma

github.com/oliver.vz/oliver.v

Jun '21

- Designed a personal website to display portfolio projects using Figma and React

task-list-tracker.web.app

MySQL Express React Node.js

github.com/oliver.vz/task-tracker-app

Jun '21

- Created a full stack task tracker app where users can log in and create, update, delete, and view their tasks chronologically

Pneumonia Neural Network

Python Keras

github.com/oliver.vz/pneumonia-neural-network

May '21

- Implemented a Convolutional Neural Network to identify the presence of bacterial and viral Pneumonia in chest x-rays, achieved an 85% overall accuracy
- Performed analysis on output to observe a 99.5% true positive rate