

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- Upgraded outdated test protocols and removed unnecessary tests to greatly reduce the amount of time needed for a full regression test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

### oliver.vazquez

React Firebase Figma

github.com/oliver.vazquez/oliver.vazquez

Jun '21

- Designed personal website using Figma and React, deployed using Firebase

### feels-like.web.app

React Firebase

github.com/oliver.vazquez/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/oliver.vazquez/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/oliver.vazquez/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