

EDUCATION

TUFTS UNIVERSITY | SEPT 2016 – PRESENT | MEDFORD, MA | EXPECTED GRADUATION: 2019 | GPA: 3.90

Bachelor of Science: Computer Science

RELEVANT COURSEWORK

Networks, Computer System Security, Machine Structure and Assembly Language, Theory of Computation, Algorithms, Graphical User Interfaces and Object-Oriented Programming, Programming Languages, Database Systems, Web Programming, Data Structures, Electronic Music Instrument Design, Recording and Production, and Computer Tools for Musicians

WORK EXPERIENCE

KURZWEIL RESEARCH AND DEVELOPMENT SOFTWARE INTERN | JUNE 2018 – SEPT 2018 | WALTHAM, MA

- Developed two web interfaces, the HomePianoApp and the WebSynth, to control Kurzweil's CUP and Forte series home and stage pianos via MIDI
- Designed the sites to allow easy access to musical parameters on both desktop and mobile platforms
- Implemented using Kurzweil's system exclusive MIDI protocol, Google's WebMIDI API, Javascript, and HTML

COMPUTER SCIENCE TEACHING ASSISTANT | SEPT 2017 – PRESENT | MEDFORD, MA

- Taught as a teaching assistant for Tufts' Data Structures and Machine Structure and Assembly Language courses
- Ran labs, graded homework assignments, and tutored students in object-oriented programming

MUSIC EVENTS TECHNICAL STAFF | JUNE 2017 – PRESENT | MEDFORD, MA

- Ran audio and video technology for music events at Tufts University's Distler Hall
- Post-produced events using Pro Tools, Adobe Audition, and Adobe Premiere
- Upgraded and maintained the music computer lab in Granoff Music Center

SKILLS

PROGRAMMING

C, C++, JavaScript, Java, Python, CSS, HTML, PostgreSQL, MAX MSP, WebMIDI API, Satori API, TripAdvisor API, Google Maps API, Node.js, Emacs, and Git

AUDIO AND VIDEO EDITING SOFTWARES

Pro Tools, Sonar X3, Digital Performer, Adobe Audition, Adobe Premiere, and Final Cut Pro

PROJECTS

TUFTS TEXTBOOK EXCHANGE DEVELOPER | JUNE 2017 – PRESENT | MEDFORD, MA

- <https://tcutextbook.herokuapp.com>
- Developed website that has facilitated over ten thousand dollars of used textbook sales at Tufts
- Built back end server with Node.js
- Used Javascript and HTML to create front end user interface

2 SIDES 2 CENTS FRONT END DEVELOPER | JULY 2017 | WALTHAM, MA

- <https://github.com/Emerson-Wenzel/AHBos>
- Built web application that encourages and facilitates healthy debate between users on controversial topics
- Implemented front end using JavaScript and Satori API

TRIPPY ADVISOR FRONT END DEVELOPER | OCTOBER 2016 | MEDFORD, MA

- <https://github.com/JoeHowarth/TrippyAdvisor>
- Designed user interface for web application that dynamically creates random day trips for users
- Implemented using HTML, CSS, and the TripAdvisor API