

Education

Northeastern University Boston, MA

May 2020

Bachelor of Science in Computer Engineering

GPA 3.54

Minor in Computer Science and Theatre

Coursework: Fundamentals of Engineering Algorithms, Embedded Design, Fundamentals of Networks, Discrete Structures, Fundamentals of Electronics, Engineering Design, Problem Solving and Computation, Probability and Statistics

Technical Skills

Operating Systems: Windows, Linux/Unix, macOS

Code: C++, Java, Python, Javascript, HTML, Matlab, Arduino, Racket

Hardware: Arduino, Zedboard, Digital Multimeter, Oscilloscope, Soldering Iron

Software: Github, Jama, Jira, Microsoft Office Suite, AutoCAD, PSpice

Work Experience

ERT (eResearch Technology, Inc.) Boston, MA

July 2017 - December 2017

Project Software Test Engineer Coop

- Interpreted Project Design Specification documents that defined protocols for clinical trials conducted by the world's top Pharmaceutical companies.
- Validated software against Project Design Specification documents.
- Investigated, reported, and maintained defect documentation for various software products using Jama and Jira.
- Facilitated global communication between an interdisciplinary engineering team to identify defects and propose solutions
- Worked with software Quality Engineers to improve test scripts to fully validate software based on the Project Design Specification.

Avida Security Works Park Ridge, NJ

September 2011 - August 2016

Assembly, Research/Development

- Developed a touch screen UI that communicated system faults and current system status information to the user.
- Implemented HTML and Javascript in Evothings Studio to build an iPhone Application.
- Demonstrated an iPhone controlled multisensory anti-tamper/anti-theft device.
- Tested camera focus, image quality, and wireless transmitter reliability for quality assurance.
- Assembled circuit boards, camera housings, transmitter/receiver housings, and various cables to build inventory.

Engineering Projects

Data Structures/Algorithms

Spring 2018

Implemented various data structures and algorithms in C++ and benchmarked the performance of each algorithm. Examples of data structures include:

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|---------------|---------|------------------|
| • Linked-List | • Stack | • Priority Queue |
| • Array-List | • Heap | • Hash Table |
| • Iterators | • Queue | |

Algorithms:

- | | | |
|--------------|--------------|-------------|
| • Merge Sort | • Quick Sort | • Heap Sort |
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Arduino Keyboard

Spring 2016

Designed an educational keyboard to teach students about musical notes and how they relate to one another. Used an Arduino with 8 pushbuttons as keys, an LCD screen to display the current notes being played, and a small piezo buzzer to play each tone.

Interests

I have a passion for Theatre and music. I regularly participate in a student run Musical Theatre group where we collaborate to design and perform Musicals. I also enjoy maintaining a vinyl record collection and curating music recommendations for my friends.