

Joshua An

719 Parker Street #3, Boston, MA 02120
626-560-0283 | joshuaan7@gmail.com | joshuaan7.github.io

EDUCATION

Northeastern University

Boston, MA

Candidate for Bachelor of Science in Computer Engineering

May 2022

Honors: Honors Program, Dean's List Fall 2018, Spring 2019, Fall 2019

GPA: 3.86

Relevant Coursework: Engineering Algorithms, Digital Design, Embedded Design, Circuits and Signals, Fundamentals of Networks, International Entrepreneurship, Management Consulting

SKILLS

Python, HTML/CSS, Git/GitHub, Linux, C++, LabVIEW, Java, MATLAB, Arduino, Verilog, SolidWorks, AutoCAD

ENGINEERING EXPERIENCE

Lightelligence

Boston, MA

Software Engineering Co-op

January 2020 – September 2020

- Designed an HTML page that displayed documentation for registers and their fields in a table format using the jinja library in Python; increased efficiency by 25% by organizing data libraries to create ease of access
- Developed an API that allows for the remote control of 6 unique lab equipment instruments using the PyVISA library and object-oriented programming techniques
- Wrote over SPI in a LabVIEW program and obtained data using Python and NI software to gather data on PCBs
- Performed debugging checks on a photonic circuit board to test the functionality of the board in a lab environment
- Generated quality assurance tests to confirm the accuracy of naming conventions and MSB to LSB ordering for fields

Northeastern University Paradigm Hyperloop Team

Boston, MA

Member

October 2018 – January 2019

- Researched feasible routes from Boston to NYC considering factors of elevation, pylon tubing, and tunneling
- Generated a report detailing the research completed to be officially submitted to the Paradigm Hyperloop organization

ADDITIONAL EXPERIENCE

Northeastern University Chinese Student Association

Boston, MA

Vice President, Events Coordinator

May 2018 – Present

- Maintain internal relations among the eleven other executive board members to ensure high-quality general meetings
- Reached out to and brought in high-profile individuals, including Awkwafina, for university-wide events

BluezenDrone

Seoul, South Korea

International Consultant

May 2019 – June 2019

- Created customer value proposition and conducted competitive analysis for a \$1M drone subparts company
- Conducted industry research to develop a 90-day action plan for a U.S. market entry

PROJECTS

Northeastern University Chinese Student Association Website

Summer 2020

- Repurposed the layout and color scheme of the website using HTML, CSS, and Git (northeastern.edu/csa)
- Managed a five-person team: Taught members basic Git skills, assigned tasks to each member, and hosted weekly meetings to provide progress updates

Wheel of Food: Android Mobile Application

Summer 2019

- Span a wheel containing food options through the push of button and displayed the selected food item afterwards
- Built using Java and Android Studio

Pillbot: Cornerstone of Engineering Course

Spring 2019

- Built automated pill-dispensing device using Arduino which activated at a time contingent on the user
- Dispensed certain number of pills at specified time based on a clock

Alexa Skill: Sound Clips: Hack@WPI

Winter 2019

- Built Alexa Skill using Java that served as a soundboard to a wide range of popular audio recordings
- Played randomly generated clips and took requests from users to play specific clips