

EDUCATION

Carnegie Mellon University

Bachelor of Science in Computer Science, Minor in Human-Computer Interaction

GPA: 3.56/4.0

Pittsburgh, PA

May 2022

Glen A. Wilson High School

GPA: 4.84/4.0 Rank: 1/400 (Valedictorian)

Hacienda Heights, CA

May 2018

SELECTED COURSEWORK:

- Principles of Functional Programming
- Natural Language Processing
- Introduction to Computer Systems
- Designing Human Centered Software
- Nature of Language (Intro Linguistics)
- Imperative Computation (Data Structures)
- Great Ideas in Theoretical Computer Science
- Interaction Design Overview

SKILLS

Technical: JavaScript, C, Python, HTML5, CSS3, Firebase, Standard ML, Git

Languages: English (fluent), Mandarin Chinese (fluent, California Biliteracy Seal), Spanish (California Biliteracy Seal)

EXPERIENCE

PicCollage (Cardinal Blue Software, Inc.)

Feb 2020 - Present

Server Developer Intern

Taipei, Taiwan

- Created additional logging functionality for internal content server using Ruby on Rails and PostgreSQL
- Replaced $n + 1$ query from internal content server for a Top 20 Photo/Video iOS app

Hopscotch Health Pvt. Ltd.

May 2019 - July 2019

Software Engineering Intern, AI Team

Pittsburgh, PA

- Implemented REST API endpoints for internal tools in **Python / Flask** for a small tobacco cessation/diet startup
- Cleaned, parsed, and visualized 10000+ records from a public cancer hospital in India with **Pandas** and **SQL**
- Developed mobile app back end using **JavaScript** and **Firebase** Cloud Firestore, Functions, and Messaging
- Product managed the release of 2 mobile **Ionic/Cordova** chat apps to the Google Play Store

Carnegie Mellon University

August 2019 - December 2019

Teaching Assistant, 15-150 Principles of Functional Programming

Pittsburgh, PA

- Improving the quality of assignments and pedagogy for a 200+ student course on **SML/the functional paradigm**
- Teaching labs to 15+ students and holding office hours to provide intuition on key concepts and homework

PROJECTS

Aftermath (aftermathapp.herokuapp.com), Team Lead and Full Stack Developer

May 2017 - October 2017

- Peer tutoring platform for math that **placed first** in the Congressional App Challenge (CA-39, 138 teams)
- Developed text/voice chat & collaborative sketchboard that rendered marks & LaTeX across devices in real time
- Full stack **JavaScript** Web app with **Firebase**, **Node.js/Socket.io** and Youtube, MathQuill, and Desmos APIs

Question Generation (github.com/brianyan918/Question-Answering-NLP), Team Member

Oct 2019 - Dec 2019

- Generate grammatical questions on an arbitrary article using **SpaCy's** dependency parse tree in **Python**

LEADERSHIP

CODE Club, President & Founder

September 2015 - May 2018

- Filled the CS extracurricular void at Wilson by mentoring and teaching web dev and Java to 10+ budding coders
- Launched high/middle school **Java** and web development summer camp and quintupled the attendance

FIRST Tech Challenge Robotics, Programming Captain & Outreach Captain

May 2015 - May 2017

- Programmed motors, servos, and sensors of robots to accomplish tasks around a playing field with **Java**