Kalvin Chang
kalvinc@andrew.cmu.edu • (310) 666-5091 • github.com/kalvinchang • linkedin.com/in/kalvinc

EDUCATION

Carnegie Mellon University   **Pittsburgh, PA**
Bachelor of Science in Computer Science, Minor in Human-Computer Interaction   May 2022
GPA: 3.56/4.0

Glen A. Wilson High School   **Hacienda Heights, CA**
GPA: 4.84/4.0   Rank: 1/400 (Valedictorian)   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, HTML, CSS, Firebase, Standard ML, Ruby, Git
Languages: English (fluent), Mandarin Chinese (fluent, California Biliteracy Seal), Spanish (California Biliteracy Seal)

EXPERIENCE

Cardinal Blue Software, Inc.   **Feb 2020 - Present**
Server Developer Intern   **Taipei, Taiwan**
- Integrated Sign in with Apple into existing server authentication strategy for a Top 20 Photo/Video iOS app
- Created additional logging functionality for internal content server using Ruby on Rails and PostgreSQL

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 150+ 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**