

Alexander H. Zhong

azhong@andrew.cmu.edu | (617) 755-9998 | <https://www.linkedin.com/in/alexander-zhong-331b79173/>

EDUCATION

Carnegie Mellon University, Pittsburgh, PA

May 2022

BS in Computer Science and additional major in Mathematical Sciences

GPA: 3.88/4.0, High Honors Dean's List

Relevant Coursework: Introduction to Computer Systems, Great Ideas in Theoretical Computer Science, Parallel and Sequential Data Structures and Algorithms, Principles of Imperative Computation, Functional Programming

RESEARCH & WORK EXPERIENCE

Github and Personal Website: <https://github.com/alexanderzhong>, www.alexanderzhong.com (for projects and additional information)

Software Engineering Intern – Avodigy/Eventpedia

May 2020 – August 2020

- Developed front end UI to display post and feed information from Firebase Firestore in social media style Android app.
- Designed data models for feed, friend, and notification systems in Firebase Firestore to maximize efficiency and pricing.
- Utilized: Java, Android Studio, Firebase Firestore, Firebase Realtime Database, Firebase Auth, Git.

Scotty Security – TartanHacks 2020, Ness Digital Engineering Prize

February 2020

- Built cross-platform mobile app that gives users holistic access to CMU's campus security resources.
- Features include location tracking, news notifications, emergency whistle, contacts page, and audio recording.
- Designed RESTful APIs for storing user locations in an online database and sending information to administrator users.
- Utilized: Node.js, HTML, CSS, Apache Cordova, RESTful APIs, Android Studio, Backend, Google Maps API.

Network Automation Intern – NetBrain Technologies Inc.

May 2019 – August 2019

- Analyzed sample networks and obtained their configuration information using Python parsers and CLI commands.
- Researched and implemented third-party integration with ServiceNow by building a POC web app using JavaScript.
- Tested NetBrain RESTful APIs and confirmed their use cases by writing HTTP calls in Python using Python's requests library.
- Built Python API parsers on the NetBrain platform for extracting information from Cisco web servers.
- Extracted and updated data using NetBrain's MongoDB.

Ajenda – Android App

May 2019 – Present

- "Ajenda" is a productivity app allows users to optimize event scheduling (can be found in GitHub repository and website).
- Retrieved weather and driving distance information using OpenWeatherMap API and Google Maps API.
- Designed interactive UI with native and non-native elements, including a fully customizable calendar view.
- Incorporated full calendar functionality, along with persistent storage to store events and event information.
- Utilized: Java, OpenWeatherMap API and Google Maps API, Local Persistent Data, Android Dev.

Research Intern – Harvard Medical School

February 2017 – August 2017

- Engineered and functionally studied multiple forms of therapeutic pancreatic enzyme CD39L3 in a research project.
- Published first-authored paper in "Purinergic Signaling" and presented research findings to Harvard Medical School faculty.
- Awarded Regeneron Science Talent Search National Semifinalist.
- Analyzed PNPLA3 (gene) transcription using RNA detecting software for coauthored paper published in the JHEP Reports.
- Programmed website for calculating BE3A score using HTML and PHP and coauthored paper published in "Gastroenterology".

TECHNICAL SKILLS

Programming: Java, Python, C, SML, Git, Android Studio, Firebase, HTML, CSS, JavaScript, Node.js, Golang

Languages: Proficient in French and Mandarin

EXTRACURRICULAR ACTIVITIES

Business Technology Group, Web Dev Committee and Outreach Director

January 2019 – Present

Asian Student Association, Member

January 2019 – Present

Undergraduate Entrepreneurship Association, Growth and Technology Committee

September 2019 – Present