

Alexander H. Zhong

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EDUCATION

Carnegie Mellon University, Pittsburgh, PA

May 2022

Bachelor of Science in Computer Science pursuing an additional major in Mathematical Sciences

GPA: 3.81/4.0, High Honors Dean's List

Relevant Coursework: Matrix Theory, Mathematical Concepts and Proofs, Principles of Computing, Principles of Imperative Computation, Functional Programming, Great Ideas in Theoretical Computer Science, Probability Theory, Introduction to Computer Systems, Parallel and Sequential Data Structures and Algorithms

RESEARCH & WORK EXPERIENCE

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

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

- Learned about network topology by analyzing sample networks and obtaining their configuration information from devices using 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.

TrailTrak – HackCMU, Bloomberg Prize 2nd Place

September 2018

- Built Android app that implements Google Maps API to allow hikers to alert others to hazards they encounter in the area.
- Used Android Studio to build to app UI and implemented business logic behind alert system.
- Utilized: Java, Google Maps API, 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 BEAAA score using html and php and coauthored paper published in "Gastroenterology" journal.

TECHNICAL SKILLS

Software: (*proficient*): Java, Python, C, SML, Git, Android Studio (*familiar*): HTML, CSS, JavaScript, blender

Languages: Proficient in French and Mandarin

EXTRACURRICULAR ACTIVITIES

Intramural Basketball Team, Member

January 2019 – Present

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