Alexander H. Zhong

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

EDUCATION

Carnegie Mellon University, Pittsburgh, PA **May 2022**
Bachelor of Science in Mathematical Sciences with an additional major in Computer Science
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

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.

HackCMU **September 2018**

- Built project titled "TrailTrak" using Android Studio and won 2nd place for the Bloomberg Prize
- "TrailTrak" is an app that implements Google Maps API to allow hikers to alert others to hazards they encounter in the area

Research Intern - Harvard Medical School **February 2017 – August 2017**

- Engineered and functionally studied multiple forms of therapeutic pancreatic enzyme CD39L3 in a research project.
- Wrote and published a 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 new RNA detecting software.
- Programmed website for calculating BEAAA score using html and coauthored paper published in "Gastroenterology" journal.

Intern – Boston Biomedical Inc. **July 2014 – August 2015**

- Learned general biotechnology lab techniques

TECHNICAL SKILLS

Software: Java, Python, C, SML, HTML, CSS, JavaScript, Git, Android Studio, 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**