

Alexander H. Zhong

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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
- Researched and implemented third-party integrations with NetBrain platform
- Tested NetBrain RESTful APIs
- Built python parsers on the NetBrain platform
- Worked with NetBrain's MongoDB

SI0t – Android Studio Project

May 2019 – Present

- “SI0t” allows users to schedule events based on user preferences and easily plan activities with other users
- Implements OpenWeatherMap API and Google Maps API to integrate weather and driving distances

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

Tutor - Russian School of Mathematics

September 2015 – April 2016

- Explained complex concepts to middle school and high school students

Intern – Boston Biomedical Inc.

July 2014 – August 2015

- Learned general biotechnology lab techniques

TECHNICAL SKILLS

Computer: Java, Python, C, SML, JavaScript, HTML, CSS, blender, Android Studio

Language: 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