

CATHERINE ZHENG

1326 Geddes Ave., Apt. 3, Ann Arbor, MI 48104
(734) 223-4806 • catzheng@umich.edu • catzheng.com

EDUCATION

UNIVERSITY OF MICHIGAN

B.S. Computer Science

Ann Arbor, MI
Fall 2018 - Winter 2022

- GPA: 3.49/4.00
- Relevant Coursework: Data Structures and Algorithms (C/C++) – Intro to Computer Organization (C / ARM / LC-2K) – Intro to Computer Security (Python) – Linear Algebra – Multivariable Calculus

LONDON SCHOOL OF ECONOMICS

Summer Study Abroad, 6-8 credit hours

London, U.K.
Summer 2019

EXPERIENCE

Facebook

Software Engineering Intern

Menlo Park, CA (remote)
June 2020 — August 2020

- Designed and implemented framework in **Relay** and **Hack/PHP**, resulting in a dynamically rendered feed and simplified **GraphQL** queries. Integrated this structure cross-platform to unify Facebook desktop with mobile.
- Developed several core features and UI components on Comet Facebook Gaming site using **React.js**

Planet Blue

Student Leader and Management

Ann Arbor, MI
August 2018 — January 2019

- Promoted time management and morale while organizing proposals resulting in an official brochure for cross-campus composting, along with a visible increase in overall student awareness of key issues
- Established weekly meetings and educational events to improve campus awareness of sustainability issues

MIT IoT Bootcamp

Course Mentor

Bloomfield Hills, MI
May 2018 — June 2018

- Co-mentored eight groups of high school freshmen in solving real-world issues, guiding them to innovate solutions using IoT technology while learning more about different facets of computer science
- Managed the hands-on process of building IoT hardware, writing software, and the final student hackathon

PROJECTS

Personal Website <http://www.catzheng.com>

Music Quiz Game *JPMorgan Prize Winner at EECS 183 Project Showcase*

- Lead a team of four to develop a music quiz web app on Heroku using **Flask** framework and **Python**
- Integrated web-scraping using **Beautiful Soup**[™] HTML parser and leaderboard **Google Firebase**[™]

Network Attack Detector and DNS Spoofer

- Implemented a programs to detect port scanning and ARP spoofing on a network and conduct man-in-the-middle DNS attacks. Required to self-teach **Golang**

Hardware LC-2K Simulator

- Created programs in **C** to simulate processes of the LC-2K ISA, such as single, multi, and pipelined processors as well as the cache and virtual memory

INVOLVEMENT

Michigan Hackers

ADDITIONAL

- Proficient languages: **C++**, **Python**, **C**, **React.js**
- Technologies: Visual Studio Code, Git, Mercurial
- Freelance graphic designer and avid artist — check out my portfolio at catzheng.com!