CATHERINE ZHENG

5162 Virgie Ln., West Bloomfield, MI 48324
(734) 223-4806 • catzheng@umich.edu • catzheng.com

EDUCATION

UNIVERSITY OF MICHIGAN — Ann Arbor, MI
B.S. Computer Science — *Fall 2018 - Winter 2022*

- GPA: 3.49/4.00
- Relevant Coursework: Intro to Operating Systems – 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 — London, U.K.
Summer Study Abroad, 6-8 credit hours — *Summer 2019*

EXPERIENCE

Facebook — Menlo Park, CA (remote)
Software Engineering Intern — May 2020 — August 2020

- Went through the entire process of design, development, testing, and deployment of user facing features using `React.js` as well as a backend framework for rendering them on the desktop Facebook Gaming feed
- Designed and implemented framework using `Relay` (GraphQL client for React) and `Hack/PHP` to make running feature experiments cleaner and to enable a feed that renders based on user behavior

Planet Blue — Ann Arbor, MI
Student Leader and Management — 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 — Bloomfield Hills, MI
Course Mentor — 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!