

CATHERINE ZHENG

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EDUCATION

UNIVERSITY OF MICHIGAN

B.S. Computer Science

Ann Arbor, MI
Fall 2018 - Winter 2022

- Relevant Coursework: Computer Vision (Python) – Intro to Distributed Systems (Golang) – Intro to Operating Systems (C++) – Data Structures and Algorithms (C++) – Intro to Computer Organization (C) – 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)
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

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`TM HTML parser and leaderboard `Google Firebase`TM

Operating System

- 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!