

# CATHERINE ZHENG

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## EDUCATION

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### UNIVERSITY OF MICHIGAN

*B.S. Computer Science*

- 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

Ann Arbor, MI  
*Fall 2018 - Winter 2022*

### LONDON SCHOOL OF ECONOMICS

*Summer Study Abroad, 6-8 credit hours*

London, U.K.  
*Summer 2019*

## EXPERIENCE

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### Facebook

*Software Engineering Intern*

- Designed and implemented framework using **Relay** data-driven dependencies (3D) and **Hack/PHP**, resulting in a feed dynamically rendered based on user information
- Integrated framework with mobile back-end to unify UX cross-platform and expedite **GraphQL** queries
- Developed several core features and UI components on Comet Facebook Gaming site using **React.js**

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

### Planet Blue

*Student Leader and Management*

- 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

Ann Arbor, MI  
August 2018 — January 2019

### MIT IoT Bootcamp

*Course Mentor*

- 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

Bloomfield Hills, MI  
May 2018 — June 2018

## PROJECTS

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**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**<sup>™</sup> HTML parser and leaderboard **Google Firebase**<sup>™</sup>

**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

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**Michigan Hackers**

## ADDITIONAL

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- 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!