

Michael Li

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EDUCATION

University of Maryland, College Park

B.S. Computer Science | B.S. Mathematics | B.A. Cello Performance

GPA: 3.97/4.00

Expected Graduation: May 2022

TECHNICAL SKILLS

- **Proficient:** React.js, Java, OCaml
- **Familiar:** C, Javascript, Node.js, Express.js, Redux.js, Angular, SQL, Ruby, Android Development

WORK EXPERIENCE

Amazon

Student Development Engineer Intern

June 2020 – August 2020

CATT Laboratory

Student Developer Intern

College Park, MD

September 2019 – Present

- Developed the Road Profile web tool using a **PERN** stack. The tool allows users to query performance metrics of detectors on roads, taking in direction, date, and time of day as input, and displays relevant data from the requested detectors.
- Developed an Admin Page, using **React**, for developers at CATT Lab to use to facilitate troubleshooting user requests. The page renders a table with information about detector export requests and road profile requests queried by transportation organizations, and allows developers to download results, stop and requeue requests, and retrieve the log files for requests.

Fidelity Investments

Software Engineering Intern

Durham, NC

June 2020 – July 2020

- Unified the IRA and Inherited RMD Calculator web tools, building an API using **Dropwizard Java Framework** integrated with **PostgreSQL** and **Drools**. A new front end was designed using **Angular** to support the combined service experience.
- Worked on designing the API contract, implementing business logic, writing JUnit tests, developing UI components, and building the **Nodes.js/Express.js** layer to route http requests from the frontend to the API.

University of Maryland

Teaching Assistant for CMSC216: Intro to Computer Systems

College Park, MD

January 2020 – May 2020

- Held weekly office hours, assisting students from a class of over 600 students with concepts such as pointers, memory allocation, and process control in **C** and basic **MIPS** Assembly.
- Assisted other TAs and professors in grading coding projects, quizzes, and exams.

PROJECTS

Yelp with Google Maps

- Web app that plots the nearest 50 restaurants from the user's current location on a map with clickable markers that display information about the restaurant, including a link to the Yelp Reviews page. Also includes a search bar that dynamically filters markers on the map and shows a filtered list of restaurants and their respective rating stars based on Yelp Reviews.
- App was developed using **React**, Yelp Fusion API, and Google Maps API.

Stray Animal Map (Winner: Runner Up Best Esri API Hack - Bitcamp Spring 2019)

- Crowdsourcing **Android** app that allows users to report and view nearby stray animal sightings on a map. Information from reports (location, images, and animal description) is sent to **Esri** Cloud Services, after which the map is updated.
- Incorporated **Esri** map services and added button, camera, and other UI functionality to the app using **Java** and **XML**.

ACTIVITIES

UMD Club Table Tennis President

February 2019 – Present

- Outlined budget plan for 2019-2020 and 2020-2021 school year, allocating funds for new equipment and uniforms, travel and lodging fees, and rental costs necessary to run a local tournament.
- Handle communication with facility management, club sports advisors, sponsorships, and other club officers to ensure that the club meets all necessary administrative requirements while continuing to publicize itself.