

# Michael Li

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## EDUCATION

**University of Maryland, College Park**

*B.S. Computer Science*

**GPA: 3.96/4.00**

*Expected Graduation: May 2022*

## TECHNICAL SKILLS

- **Proficient:** Java, C, OCaml, JavaScript, React.js
- **Familiar:** Ruby, Android Development, Redux.js, Angular, Drools, SQL

## WORK EXPERIENCE

**Fidelity Investments**

*Software Engineer Intern*

**Durham, NC**

*June 2020-August 2020*

- Unified the IRA and Inherited RMD Calculator web tools, building an API using **Dropwizard Java Framework** integrated with **MySQL** and **Drools**. A new front end was designed using **Angular** to support the combined service experience.

**University of Maryland**

*Teaching Assistant for CMSC216: Intro to Computer Systems*

**College Park, MD**

*January 2020-Present*

- Hold 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.
- Assist other TAs and professors in grading coding projects, quizzes, and exams.

**CATT Laboratory**

*Student Developer Intern*

**College Park, MD**

*September 2019 – Present*

- Developed a **React** web-app that renders a table with information about traffic detector export requests fetched from a database for developer admins to download results, stop processing requests, and copy JSON arguments for each request.
- The exports table web-app was deployed to Detector Tools production in April 2020 and fetches requests made by transportation organizations and users from across the nation that have access to RITIS services.

**Paradyne Management**

*Technical Intern*

**Greenbelt, MD**

*September 2018 - December 2018*

- Pushed the **Greenbelt Go Android** app onto the Google Play Store. The app has information about local attractions, public transit, and emergency contacts in Greenbelt and was developed by a team of 10 interns.
- Worked on button functionality and app aesthetics using **Java** and **XML**, and **Git** for version control.

## PROJECTS

**Yelp with Google Maps**

- Web app that plots the nearest 50 restaurants from current location on a map with clickable markers that show an info window with relevant information about the restaurant, including a link to the Yelp Review page.
- App includes a search bar that dynamically filters the markers displaying on the map and shows a filtered list of restaurants with their 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 to view nearby stray animal sightings on a map. Information collected from the report (user current location, images, and descriptions of the animal) is sent to **Esri** Cloud Services, after which the map is updated with the new stray animal sighting.
- Incorporated **Esri** map services and added button, camera, and other UI functionality to the app using **Java** and **XML**.

**PrintN'Pass** (*Winner: Top Ten Hacks, Best Use of Google API - HopHacks Spring 2019*)

- Stateless biometric password manager that uses an **Android** app to create an encrypted master password through fingerprint identification and a webserver to generate a unique password by hashing (SHA-256) the decrypted master password with the website domain. The app and chrome extension autofill the login credentials on the website.
- Created the fingerprint activity and other UI features for 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 uniforms and equipment, travel fees for the upcoming collegiate season, 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 publicizing itself.