Michael Li

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EDUCATION

University of Maryland, College Park **GPA: 3.96/4.00**
B.S. Computer Science *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 **Durham, NC**
Software Engineer Intern *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 **College Park, MD**
Teaching Assistant for CMSC216: Intro to Computer Systems *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 **College Park, MD**
Student Developer Intern *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.

Paradyme Management **Greenbelt, MD**
Technical Intern *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 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.