

# 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, JavaScript, OCaml, React.js
- **Familiar:** Ruby, Git, Unix, Android Development, Redux.js

## WORK 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.
- 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 production in April 2020 and fetches export requests made by transportation organizations and users from across the nation that have access to RITIS services.
- Working on bug tickets for the Probe Data Analytics Suite, a collection of web-based tools, created using a **React-Redux** framework, that allow customers and transportation agencies to download, visualize, and compare traffic data.

### 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.
- Focused 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.

### College Park Scholars STS Peer Mentor Captain

April 2019 - Present

- Plan Science, Technology, and Society Scholars community activities for over 80 incoming first-year STS students, helping them settle into their college life and directing them to resources available on campus.
- Serve as a main point of contact between Scholars coordinators and STS peer mentors, ensuring that all STS mentors fulfill their responsibilities and meet deadlines.