

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 for Detector Tools that renders a table with information about traffic detector export requests 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 retrieves export requests from 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.