Michael Kasman

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Education

The University of Texas at Dallas — **Richardson, TX**
B.S. Computer Engineering | Erik Jonsson School of Engineering and Computer Science — *August 2018 – Present*

Uplift North Hills Preparatory — **Irving, TX**
High School/International Baccalaureate Diploma — *August 2014 – May 2018*

Skills & Interests

- **Programming Languages/Technologies:** Java (Beginner), C/C++ (Beginner), Python (Beginner), JavaScript (Intermediate), HTML 5 (Proficient), CSS 3 (Proficient), PHP (Proficient), SQL (Proficient), Bootstrap (Proficient), jQuery (Proficient)
- **Organizations:** Association of Computing Machines (ACM), Institute of Electrical and Electronics Engineers (IEEE)

Work Experience

Association of Computing Machinery (ACM) — **Richardson, TX**
Principal Investigator | Facial Recognition Lab — *October 2018 – Present*

- Designed facial recognition software, SpectralSight, for airlines to quickly board passengers through identifying their flight information
- Utilized **Raspberry Pi/Raspbian OS** to display the client-side and to run the facial recognition software for prototype testing
- Server-side programming using **Python, OpenCV,** and **SQL** to verify faces of passengers with their flight information in the **MySQL** database

The University of Texas at Dallas — **Richardson, TX**
Anson L. Clark Undergraduate Summer Researcher | Computer Science Lab — *June 2018 – August 2018*

- Developed and administered a mobile indoors navigation app, Constellation, for the UT Dallas campus by collaborating with undergraduate researchers and principal investigator, Dr. Ravi Prakash
- Created **PHP** scripts to receive HTTP requests from the client and acquire the requested path coordinates and user location from **ArcGIS** and **Cisco CMX**
- Accomplished Constellation 1.0, measured by 50+ successful consecutive tests in navigating a path between rooms, through frontend and backend communication

Science, Technology, Engineering, Arts, Mathematics (S.T.E.A.M.) Achievers — **Dallas, TX**
Software Engineering Intern | Full Stack Team — *September 2017 – May 2018*

- Frontend development using **HTML 5**, **CSS 3**, and **Javascript** for the design and function of the S.T.E.A.M. Achievers Hackathon website
- Backend development using **PHP** and **SQL** to secure the **MySQL** database and the upload of apps
- Educated 150+ participants, ages of 12-18 years old, to develop a web app in the web-development hackathon workshop

Projects

Constelattion Mobile Indoors Navigation App — **(https://github.com/MCKasman/indoor-navigation)**

- Developed a mobile indoors navigation app capable of location tracking and path-finding between rooms to guide visitors, students, and faculty on the UT Dallas campus **(News Feature)**
- Presented Constellation 1.0 in a live demo and poster presentation at the 2018 Clark Summer Research Conference & Expo

Spoodle — **(https://github.com/MCKasman/spoodle)**

- Investigated methods and devised a solution to reduce food waste by creating an e-commerce mobile app for restaurant owners to sell excess food through an "FDA approved" method
- Programmed in **Java** and **PHP** to connect the client to the database; client requests prompt **SQL** queries to select, update, insert, or delete a database item

GreenView — **(https://github.com/MCKasman/greenview)**

- Implemented **Clarifai API** to analyze the recyclability of objects taken picture of through 15+ details of recyclable items in a MySQL database
- Won 1st Place in the 2017 cPanel & FreeCodeCamp Hackathon in Houston, Texas

Honors & Awards

- **ACM Research Scholar Award** – Selected to receive full funding and sponsorship under ACM for the development of facial recognition software, SpectralSight
- **2017 cPanel & FreeCodeCamp Hackathon** – Awarded 1st Place for the best mobile app, GreenView, in programming and design out of 50+ other competitors
- **2017, 2015, 2014 Dallas BEST Robotics Engineering Design Award** – Awarded for the best robotics engineering and programming design at the Dallas BEST Robotics competition among 40+ other schools