MICHAEL KASMAN

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Profile

I am an undergraduate student with experience in full-stack development. I develop projects engaged in software solutions and web and mobile apps. I am always eager to learn about new technologies and will demonstrate a strong pursuit in accuracy and efficiency to present my work with upmost detail.

SKILLS

Languages: Java (Beginner), C/C++ (Beginner), Python (Beginner), MATLAB (Beginner), JavaScript (Intermediate), PHP (Intermediate), HTML 5 (Proficient), CSS 3 (Proficient)

Frameworks/Libraries: Bootstrap, jQuery, OpenCV

Technologies: MySQL, SQL

Software: Microsoft Office, Paint.NET, Adobe Photoshop, Glade Interface Designer

PROJECTS

Constellation 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

FastPass
(https://github.com/MCKasman/fastpass)
- Implemented **Microsoft Azure Facial Recognition API** into FastPass mobile app to verify boarding pass information of American Airlines passengers by scanning their faces
- Full-stack development using **HTML 5, CSS 3, JavaScript,** and **PHP** to create check-in UI/UX and query information to the server/**MySQL** database

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 database

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 UTD Labs Sponsorship
Selected to receive full funding and sponsorship under ACM UTD for the development of facial recognition software, SpectralSight

2017 cPanel & FreeCodeCamp Hackathon First Place Award
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

Better World Fund & UNA-USA Thank a Peacekeeper (TAPK) Campaign Award
Awarded a grant from the United Nations Association of the United States of America (UNA-USA) and Better World Fund for heading the TAPK campaign at the Dallas Area Model United Nations Conference: delivered 300 complete TAPK cards

EDUCATION

The University of Texas at Dallas — 2018 - Present
Undergraduate
Computer Engineering
Richardson, TX

Uplift North Hills Preparatory — 2014 - 2018
High School/International Baccalaureate Diploma
Irving, TX

WORK EXPERIENCE

Association of Computing Machinery (ACM) UTD — December 2018 - Present
Lead Software Engineer/Architect | Facial Recognition Lab
- 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
Richardson, TX

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

S.T.E.A.M. Achievers — September 2017 - May 2018
Software Engineering Intern | Full Stack Team
- 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
Dallas, TX

Dallas Area Model United Nations Conference — August 2017 - October 2017
DAMUN Chairman
- Organized the 2017 Dallas Area Model United Nations (DAMUN) Conference with a grant received from the Better World Fund/ United Nations Association of the United States of America (UNA-USA)
- Created a website for the DAMUN Conference: http://damun.webflow.io/
- Collected over $5000 from the conference: approximately 300+ delegates attended
Irving, TX