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## Education

### George Mason University, Honors College

*Bachelor of Science in Computer Science*

Falls Church, VA

Graduation Expected in May 2021

- Dean's List

Fall 17' – Present - **GPA: 3.64**

- Relevant Courses - Data Structures, Object Oriented in Java, Python, C, Linear Algebra, Discrete Math, Formal Methods and Models, Statistics for Engineers, Algorithms, Computer Systems and Programming

## Experience

### British Aerospace (BAE) Systems (Machine Learning)

*Software Engineering Intern*

Tysons, VA

May 19' – August 19'

- Leveraged open source tools to develop multiple machine learning models that were used to acquire intelligence on foreign militaries through object classification in images. Collected and annotated over 1000 images to train models and developed multiple scripts to prepare data and deploy models through AWS.
- Utilized Python, TensorFlow, YOLO, NumPy, Pillow, and Pickle to prepare the data and create the models.
- Incorporated Agile Development Methodologies through Jira to efficiently produce and deploy code.

### No More Shootings (Python)

*Developer*

Group Project

February 2019 – Present

- Created a service that can detect weapons using real-time camera footage with OpenCV.
- Developed the Python script which utilized TensorFlow, YOLO and Darkflow to structure and train the model on over 400 annotated images and implemented AWS SNS service to alert users.

### EyeBank (Python)

*Developer*

Group Project

March 2018 – April 2018

- Developed a python script that was deployed on a mock ATM to assist the visually impaired in managing their personal finances. Implemented machine learning tools to facilitate usage of ATM.
- Utilized TensorFlow and YOLO for facial recognition of the user and Python's text-to-speech library and google cloud's speech-to-text service to facilitate the user's interaction with an ATM.

### Remedify (Node.js/Express)

*Developer*

Group Project

September 2018 – October 2018

- Developed a REST API that provides natural remedy solutions for common illnesses.
- Acquired data through a python web crawler created with the Beautiful Soup library and was accompanied by an iOS app to display the implementation of the API on a sample project.

### Cipher Texts (Python)

*Developer*

Independent Project

March 2018 – April 2018

- Developed a program that can encrypt or decrypt the user's files with the choice of a Vigenere, Caesar, or Rail Cipher.

## Leadership and Awards

### Software Development Club, George Mason University

*Co-Founder/Developer*

Fairfax, VA

August '18 - Present

- Helping over 35 students grow a passion for software development. Learning new technologies by working on projects and attending hackathons. – <https://sdcgmu.org>

### George Mason University - PatriotHacks

*Mentor/Co-lead of iOS workshop*

Fairfax, VA

October 18' – October 18'

- Mentored 250+ students and assisted in running a workshop for iOS app development.
- Assisted students and taught them several programs/technologies such as Python, Java, debugging skills, API implementation from sponsors, scripting, and fundamental HTML/CSS.

### Georgetown University - HoyaHacks

February 2019

- Won 3<sup>rd</sup> place overall, 1<sup>st</sup> place for best Software hack sponsored by Microsoft, and 2<sup>nd</sup> place for best Amazon Web Services Hack.

### University of Maryland - Bitcamp

April 2019

- Won 1<sup>st</sup> place best financial hack sponsored by Capital One and won Bitcamp Compass Challenge.

## Skills

**Technical Skills:** Machine Learning, Google Cloud, TensorFlow, MongoDB, Express, Windows, Unix, Linux, iOS, Android, Amazon Web Services, Eclipse IDE, GitHub, Microsoft Office Suit, Jupyter Notebook