Alexandro Fuentelzas

Languages: Java, Python, C, HTML, CSS

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Education

George Mason University, Honors College — Falls Church, VA
Bachelor of Science in Computer Science — Graduation Expected in May 2021

- Dean's List — Fall 17' – Present - <u>GPA: **3.59**</u>
- Relevant Courses - Data Structures, Object Oriented in Java, Python, C, Linear Algebra, Discrete Math, Formal Methods and Models, Statistics for Engineers

Experience

British Aerospace (BAE) Systems (Machine Learning) — Tysons, VA
Software Engineering Intern — May 19' – August 19'

- Leveraged open source tools to create 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 in data lab.
- Utilized Python, TensorFlow, YOLO, NumPy, Pillow, and Pickle to prepare the data and create the models.

Mentor — Fairfax, VA
PatriotHacks Hackathon/iOS workshop — 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.

No More Shootings (Python) — Group Project
Developer — 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) — Group Project
Developer — 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) — Group Project
Developer — September 2018 – October 2018

- Remedify is a REST API that provides natural remedy solutions for common illnesses.
- Data was acquired through a python web crawler made 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) — Independent Project
Developer — March 2018 – April 2018

- Cipher Texts is a program that receives the user's desired encoded text and encrypts their information with the choice of a Vigenere, Caesar, or Rail Cipher.

Leadership and Awards

Software Development Club, George Mason University — Fairfax, VA
Co-Founder/Developer — 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

Georgetown University - HoyaHacks — *February 2019*

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

University of Maryland - Bitcamp — *April 2019*

- Won 1st 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