Alexandro Fuentelzas

Languages: Java, Python, C, HTML, CSS, JavaScript

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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 - GPA: **3.70**
- Relevant Courses – Algorithms, Concurrent and Distributed Systems, Databases, Data Structures, Operating Systems, Object-Oriented in Java, Python, C, Linear Algebra, Discrete Math, Formal Methods and Models, Statistics for Engineers, Computer Systems and Programming

Experience

Amazon Web Services (AWS) – Systems Manager   Arlington, VA
Software Development Engineer Intern   June 20' – August 20'
- Developed a modular component for the AWS Patch Manager and Managed Instances consoles under Systems Manager that displays patch metadata for supported operating systems
- Improved the user experience by optimizing search functionalities to facilitate patch filtering for operating systems and applications and tailored the component to clearly distinguish the type of patches being viewed by customers.

British Aerospace (BAE) Systems (Machine Learning)   Tysons, VA
Software Engineering Intern   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.

Socalysis (Full Stack)   Personal Project
Project Developer   May 20' – Present
- Designed, architected, and developed a robust and scalable social media marketing website for gathering and managing analytics from popular social media platforms.
- Utilized React.js, Node.js, MongoDB, and Express to design API models, ensure security through user authentication, and tailor user profiles for each social media platform.
- Infrastructure was designed with AWS EC2, S3, and Lambda services to integrate seamless workflows.

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

George Mason University - PatriotHacks   Fairfax, VA
Mentor/Co-lead of 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.

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.
- 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.

University of Maryland - Bitcamp   April 2019
- Won 1st place best financial hack sponsored by Capital One and won Bitcamp Compass Challenge.
- Developed and deployed a python application on a mock ATM to assist the visually impaired in managing their personal finances. Utilized TensorFlow and YOLO for facial recognition of the user, Python's text-to-speech library, and google cloud's speech-to-text service to facilitate the user's interaction with the ATM.

Skills

Frameworks/Tools: Amazon Web Services, TensorFlow, SQL, React, Redux, NodeJS, Django, Express, MongoDB, Unix, Git, Version Control, Vim