Cassie Wischhoefer

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PROFILE

An aspiring Computer Science professional with a concentration in Cyber Security from George Fox University. Completed my Associate of Arts degree at Olympic College during high school to accelerate academic progress and demonstrate strong work ethic. Passionate about developing progressive technology to improve daily life, with a particular interest in assistive technology and machine learning. Strongly motivated and committed to using my skills to help others.

PROFESSIONAL / PROJECT EXPERIENCE

Employment: Systems Development Engineering Intern

Amazon Web Services | June 2022 - August 2022

Technologies Used: Java, AWS services, Database Modeling, APIs

Designed and created an AWS internal system that automates VirusTotal's (VT) LiveHunt notifications into downstream services for the Cyber Analysts. Worked with S3, DynamoDB, Lambda, API Gateway, and the Smithy language to establish interactive API endpoints that allows the analyst to interact with the system. Demonstrated strong ownership and motivation while designing and inventing this system from a loose end-result prompt. Used AWS best practices and the working backwards protocol to provide an internal tool that works best for the analysts's needs.

Employment: IT Tech Assistant

George Fox University | September 2021 - April 2023

Technologies Used: Powershell, Quest KACE, Active Directory, Bitlocker

Performed tasks of PC imaging, hardware replacements and the installation of drivers and software. Worked closely with the technicians and demonstrated communication skills to solve software issues. Conducted research and tests for newly deployed software and created powershell scripts for administrative automation tasks.

Project: Database Creation and Population

Database Systems| Duration: 3 months

Technologies Used: Postgres SQL, Python, ER diagramming

Full project can be found in portfolio, link in heading

This project's goal was to design a well-defined database and populate it with information stored in .XML files about movies, actors, and other related data. The data we were given was ill-defined and difficult to identify useful information. After parsing the files and populating the database with thousands of entries using python scripts, we wrote SQL queries to retrieve useful information and become familiar with data retrieval.

From this project I learned that handling large amounts of data is very messy. While writing the SQL queries, we made many changes as we noticed that some data was difficult to retrieve or not found in our database. Additional hours were spent loading more data and tweaking our database structure. Our hard work payed off and I am very satisfied with the delivered database.

Project: Vinetech

Senior Design| Duration: 5 months

Technologies Used: Machine Learning, Python, HMM model, ROS

Full project can be found in portfolio, link in heading

The Vitibot is a rover that can autonomously traverse a vineyard, gathering image data to predict grape yield months before harvest with the estimated yield within 98% of the harvest amount. The team made upgrades to the autonomous navigation capabilities and data cleanup used to further increase prediction accuracy. Vineyard owners have shown great interest in the Vitibot as it can save them time and money while providing accurate yield predictions.

The primary objective set I focused on in this project was to enhance the adaptive cruise control system of the rover in terms of both directionality and speed. This improvement is aimed at increasing the rover's driving reliability and enabling it to function autonomously with greater efficacy. Furthermore, this enhancement in the adaptive cruise control system will also result in a more accurate frequency of image capture, leading to an overall improvement in prediction accuracy.

EDUCATION / SKILLS

B.S. in Computer Science with a Concentration in Cyber Security

George Fox University | Newberg, OR

Some Related Classes:

- Computer Security & Digital Forensics
- Data Communications and Networks
- Network Administration
- Secure Software and Cyber Defense
- Human and Computer Interactions
- Artificial Intelligence
- Ethical Hacking
- Web-Based Programming
- Parallel and Distributed Computing
- Introduction to Data Science

Interpersonal Skills:

- Quick Learner
- Communication
- Easily Adaptable
- Creative
- Hard-Working
- Team Oriented
- Organization
- Motivated
- Problem Solving

Tools and Technologies:

- Proficient in Python, Java, C / C++
- Experience with Fortran, Julia, Prolog, and Scala
- Powershell Scripting
- HTML, CSS, and Javascript
- MIPS architecture language
- Comfortable with Git process and Command Line
- Database Systems & SQL
- AWS Services
- Multi-threading and GPU programming
- Object-Oriented Programming
- Comfortable with Linux, MacOS, and Windows