Suamy Hernandez

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TECHNICAL SKILLS

Languages| Python, Java, C/C++, SQL, JavaScript/TypeScript, HTML/CSS, Assembly

Frameworks| React, Node.js, Flask, FastAPI, Bootstrap, .NET

Libraries| PyTorch, TensorFlow, pandas, NumPy, matplotlib, BeautifulSoup, SwingX, deeplearning4j

Databases| PostgreSQL, MongoDB, Azure, MySQL

Tools| Git, AWS, Docker, Linux, Kali, Jira, Agile, DevOps, Maven

EXPERIENCE & PROJECTS

Operating Systems Project | Personalized SIEM   **October 2024-December 2024**

SIEM Hack Project | linux | kali | pimpmykali | Rita | MongoDB | Suricata |

- Set up and deployed Kali Linux in VMware.
- Using Rita, a database was built, and beacons were created using the database.
- Malware pcap files were analyzed and investigated using Rita, Suricata and zeek to find source and information.

Database management project | clinic database webpage   **September 2024-December 2024**

Clinic webpage project | HTML | php | css | MySQL | javascript |

- MySQL was used to create the database of the clinic.
- Using HTML, php, css and javascript, the webpage was designed and created.
- Webpage accepts inputs of new patients, insurance information, and shows employees working schedules.

Artificial Intelligence Project | AI baseball app   **October 2023-May 2024**

AI Baseball Analytics App   deeplearning4j | SwingX | Java |

For this project, an application was created which would take the statistics of the Major League Baseball pitchers and hitters, along with a specific in-game situation, analyze this data and output the pitch that the pitcher should throw for the best in-game result.

- A neural network was built that uses the 2023 season statistics as a training set to determine the baseline statistics that are used to inform the model on which specific inputs yield the pitch output.
- Aided in building the web user interface, back-end and debugging.

Software Engineering (Back-End) Project | password manager   **August 2023-December 2023**

Password manager app | Jira | Python |

- within the project, an extension app was created to save and create passwords.
- Aided in developing a random password generator, password storage, and a scanner for the strength of the password.
- The password manager aids in saving and creating passwords of specific websites, while also scanning for the strength and health of it.

Freshman Design-Expo Project | Barcode attendance taker   **October 2022-December 2022**

Barcode Scanner | Python |

- within the project, a simple GUI was developed for the scanner using python.
- Aided in developing the GUI, debugging and the construction and design of the barcode scanner.
- The barcode attendance taker aids in scanning students' ID's and sending the professor an email of the students who arrived to class and the time of arrival.

EDUCATION

Houston Christian university- Bachelor of Science, Computer Science