

# Suamy Hernandez

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## TECHNICAL SKILLS

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**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

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### Operating Systems Project | Personalized SIEM

October 2024-December 2024

SIEM Hack Project

| linux | kali | pimpmypkali | 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**

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**Houston Christian university-** Bachelor of Science, Computer Science