EDMARCK SOSA

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Education:

California State University, Fullerton | bachelor's degree | Computer Science | GPA 3.2/4.0 | Expected May 2025

- **Clubs:** Offensive Security Society (OSS) | Association for Computing Machinery (ACM) | Amazon Women of The World | Society of Hispanic Professional Engineers (SHPE) | Hispanic Association of Colleges and Universities (HACU)

Mount San Antonio College | associate | Mathematics | May 2023

Related Course:

Front-End & Back-End Engineering (Web Application)
Algorithm Engineering
File Structure and Databases
Cloud Computing
Data Structures/Algorithms
Artificial Intelligence (AI)
Machine Learning (ML)

Technical Skills:

Languages: C/C++, Python, HMTL, CSS, JSON, GraphQL, MYSQL, SQLite3, PHP, JavaScript, Typescript, Angular, React, NextJs

Developer tools: Git, GitHub, VSCode, Firebase, Jira, Vercel, Unix/Linux systems, AWS Cloud, Ubuntu, Make

Professional Experience:

Kaiser Permanente | Mental Health Clerk | Full Time **September 2023 to Present**

- Engaged with patients, doctors, nurses, and licensed clinicians to address mental health needs, ensuring clear communication and contributing to smoother patient experiences and more efficient service delivery.
- Organized meetings for patients in crisis, successfully mitigating high-risk situations involving suicidal and homicidal ideation through close coordination with clinical teams, which helped ensure patient safety.

Edwards Lifesciences | Automation Analysis of Calorimetry Data **Fall 2024 to Present**

- Developed a Python and MATLAB-based script for automated data analysis for a Differential Scanning Calorimeter (**DSC**) test, which measures phase transformation temperatures for various materials that undergo shape memory and phase transformations to ensure quality and reliability.
- Model and analyze material behaviors during phase transformations, processing data with higher efficiency than traditional manual data analysis, extracting key sensitive information, and converting the results into detailed reports.

Project Experience:

Titan Lock **Spring 2024**

- Developed and deployed a cross-platform password manager using **Python** in a **Linux-based system** to ensure operating system compatibility, enabling a classroom of 35 students to use it seamlessly on launch day.
- Implemented a user-friendly graphical interface using the **TKinter GUI toolkit**, providing an easy user experience, which increased accessibility and ease for non-tech-savvy individuals.
- Engineered secure local storage for user profiles by hashing data with salted encryption, requiring a 16-character alphanumeric string. This design protects against brute force attacks by increasing the complexity of password combos.

School Database **Summer 2024**

- Creating **Entity-Relationship (ER) diagrams** and **Relational Models** to Develop and host a dynamic webpage using **HTML**, **PHP**, and **Python** to provide seamless access to the school's **database** for administrators and staff.
- Utilized Python for front-end development, creating a responsive user interface, and **SQL** for backend data management, ensuring efficient querying, retrieval, and modification of school records.

Undergrad Research **Summer 2022**

- Conducted research under Principal Investigator Dr. Joshua Smith at the Gravitational Wave Physics and Astronomy Center (GWPAC). I monitored and recorded temperatures for a cryogenic machine, from room temperature to near absolute zero (Kelvin).
- Developed and coded the cryogenic system using industry-standard programming languages such as **LabView** and **Python**, enabling instruments to record, read, and write data for research purposes.

Awards:

Hispanic Scholarship Fund (HSF): I was one of the 10,000 students selected to be a 2024 HSF Scholar from a pool of 100,000+ applicants. This award is an acknowledgment of my hard work and dedication.

Edison International College of Completion STEM Scholarship: A recipient of a $1000 award for my dedication and excellence in my STEM career.