

Andres Pedro Hinojosa

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Education

Master of Science in Computer Science

Expected: May 2026

California State University San Marcos (CSUSM)

Bachelor of Science in Computer Science

Aug 2020 - May 2024

California State University San Marcos (CSUSM)

GPA: 3.73/4 | Magna Cum Laude | Dean's List: Maintained a GPA of 3.5+ for 5 semesters

Professional Experience

Undergraduate Research Assistant | *Move*

Jun 2024 – Aug 2024

California State University, San Marcos

San Marcos, CA

- Developed optimized patterns in Move smart contracts for the Sui blockchain to reduce transaction costs.

Instructional Student Assistant | *Excel*

Feb 2024 – Present

California State University, San Marcos

San Marcos, CA

- Assist the professor of CS436: Introduction to Networking in grading classwork across two sections for a total of 60 students.

Undergraduate Research Assistant | *Python, Pandas, Keras*

Nov 2023 – May 2024

California State University, San Marcos

San Marcos, CA

- Focused on developing **deep learning** models for network intrusion detection in IoT using edge computing
- Implemented CNN-based and BiLSTM-CNN models on an imbalanced dataset, achieving a 24% improvement in F1-Score compared to the state-of-the-art.
- Published paper:** Andres Hinojosa and Nahid Ebrahimi Majd, "Edge Computing Network Intrusion Detection System in IoT Using Deep Learning," *Proceedings of the 2024 IEEE ICCCN*. Conference rank: B1(Qualis). July 2024.

Technical Skills

Languages/Frameworks: C++, Python, C#, Kotlin, HTML/CSS, XML, Flask, SQLite3

Developer Tools: Git/GitHub, VS Code, Visual Studio, PyCharm, Jira

Libraries: NumPy, Matplotlib, Pandas, Keras, SciKit Learn

Certifications: Jira Fundamentals Badge

Projects

Brainwave Matchmaking Application | *Python, Flask, HTML, CSS, Jira*

Oct 2023 – Dec 2023

- Implemented a database alongside login, sign-up, and update forms, enabling users to create accounts, edit profiles, and log in securely.
- Utilized the BrainBit SDK in conjunction with a smart EEG Headband to collect and store user's brainwave data as they watch videos.
- Created a user compatibility function utilizing the Euclidean formula to provide matchmaking results based on brainwave data.

Mobile Wardrobe Management Application | *Kotlin, XML, Git, Firebase*

Apr 2023 – May 2023

- Collaborated in a cross-functional team of six members to develop a closet management app, addressing common clothing-related challenges.
- Utilized back-end technologies such as **Firebase**, WorkManager, and Room for data management and synchronization.

University Registrar Application | *C++*

Dec 2021

- Developed an interactive menu-based program with **C++** and **Unix**, empowering administrators to perform essential tasks such as student addition, deletion, and viewing with ease.
- Designed a dynamic database system using **OOP** principles to efficiently manage and organize student information, offering seamless accessibility and modification.