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** (5 semesters)

Professional Experience

Software Engineering Intern | *SAP CPI, Groovy, Power Apps, React* — May 2025 – Aug 2025
New York Life Insurance Company — *New York, NY*

- Designed and implemented secure SAP CPI iFlows to transform SuccessFactors reports into automated data pipelines using Groovy scripts.
- Co-developed an internal decision-tree application in PowerApps using Dataverse and Power Automate. I extracted and documented 30+ logic paths from a POC and implemented dynamic workflows.
- Collaborated with fellow interns to create a generative AI chatbot to enhance customer experience during peak and off-hours through QA and front-end development using React and AWS services.

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.

Blockchain Research Assistant | *Move, Excel* — 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.
- **Co-authored:** Nahid Ebrahimi Majd, Andres Hinojosa, Calvary Fisher, Fernando Landeros, and Foteini Baldimtsi, "A study on Gas Optimization and Performance Evaluation of Sui and Aptos blockchains," *Proceedings of the 2025 ACM/IEEE WETSEB* Conference rank: A1(Qualis). June 2025.

Deep Learning Research Assistant | *Python, Pandas, Keras, SciKit Learn* — Nov 2023 – May 2024
California State University, San Marcos — *San Marcos, CA*

- Created **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.
- **Authored:** 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.

Projects

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.

Technical Skills

Languages/Frameworks: C++, Python, C#, HTML/CSS, React, Groovy, SAP CPI, Power Apps
Developer Tools: Git/GitHub, VS Code, Visual Studio, PyCharm, Jira
Libraries: NumPy, Matplotlib, Pandas, Keras, SciKit Learn
Certifications: Jira Fundamentals Badge