Hector Rios

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EDUCATION

San Jose State University | San Jose, CA
B.S. in Computer Science, Minor in Statistics **May 2027**
Relevant Courses: Machine Learning Foundations Cornell Tech, Object-Oriented Design, Data Structure and Algorithms, Discrete Mathematics, Introduction to Computer Systems, Introduction to Programming

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript, C++, C
Software & Technologies: React, MongoDB, Express JS, Node.JS, Pandas, TensorFlow, Jupyter Notebooks, Google Colab

PROFESSIONAL EXPERIENCE

CodeDay Labs, San Jose, CA
Software Engineer Internship | Typescript, Python, MySQL, PostgreSQL 2/2025 - Present
- Worked with a mentor on improving error/warning message handling for schema drift issues in Prisma, supporting databases like MYSQL, PostgreSQL, and MSSQL

C.W.D. Engineering Department, San Jose, CA
Undergraduate Research Assistant | AI, Yolov8, Python, Pandas, NumPy 8/2024 - 2/2025
- Assisted a professor in enhancing the AI computer vision YOLOv8 model to detect car features in public settings.
- Boosted model by 20% through enhanced training techniques and dataset augmentation, significantly improving object detection performance
- Used Pandas, CV2, easyOCR, and Python to enhance the application

Project Engineering Success, San Jose, CA
Machine Learning Intern | AI, TensorFlow, Python, ScikitLearn, Pandas, Numpy 9/2023-5/2024
- Developed a neural network model achieving 80-90% accuracy in malware detection, demonstrating the impact of larger datasets on model performance.
- Utilized NumPy, Pandas, and Sklearn for efficient data handling and preprocessing of opcode sequences, ensuring precise inputs for classification.

PROJECTS

SafeRoute | React, MongoDB, Express, and FireBase
- Awarded 1st Place @SJHacks for developing and deploying a social media application that finds the safest route around San Jose.
- The app analyzes past crime data and provides a risk assessment for different routes, prioritizing paths that avoid high-risk areas.
- Leveraged Google Maps API to facilitate prioritization and recommendation of paths.

EquiBot | Swift, UIKit, Firebase, Gemini API
- Built an interactive chatbot using JavaScript, allowing users to select a language and receive instant translations within a chat-like interface.
- Integrated a translation API to process and display real-time multilingual responses, facilitating seamless communication

LEADERSHIP AND PROFESSIONAL DEVELOPMENT

LatinxInTech @ SJSU, Livermore, CA
CoFounder 8/2022-12/2023
- **Managed** customer databases and social media accounts, creating engaging content to drive audience growth and brand awareness.
- Developed and implemented social media strategies to foster engagement and increase follower interactions.

Management Leadership for Tomorrow 1/2025-Present
Career Preparation Fellow
- Accepted into a selective 18-month professional development program for high-achieving talent
- Completed business case studies and assignments to grow leadership and technical skills
- Attend conferences hosted by industry leaders, such as Deloitte, LinkedIn, and Target