Juan Torres

linkedIn |Las Cruces, NM|#phonenumber| email@email.com

EDUCATION

New Mexico State University **Las Cruces, NM**
Bachelor's of Computer Science GPA:3.9 *Expected graduation date : Spring 2025*

RELEVANT COURSES

Computer Science I , Object Oriented Programming, Machine Programming and Organization, Introduction to Data Structures, discrete math, compilers and automata theory, Software Development, Data Structures and Algorithms, Modern Web Technologies.

SKILLS

Programing: Java, Python, C++, C, C#, HTML, CSS, Javascript, Git, GitHub, pythorch.

Languages:Native in Spanish, intermediate in italian.

WORK EXPERIENCE

NSF: Research Experience for Undergraduates (REU) **NMSU**
Undergraduate researcher *Summer, 2023*

- Developed proficiency in advanced reinforcement learning methodologies.
- Achieved a 500% improvement in Proximal Policy Optimization algorithm efficiency by implementing strategic vectorization techniques, significantly reducing training time.
- Conducted experiments using Soft Actor-Critic (SAC) and Advantage Actor-Critic (A2C) reinforcement learning algorithms to assess their effectiveness in inserting hardware Trojans in simulated chipset environments.
- Achieved 92% benchmarks efficiency on hardware Trojan insertion.

The Home Depot **Hobbs, NM**
Service Desk Lead *spring ,2021- Summer ,2022*

- Streamlined order picking system by identifying inefficiencies and collaborating with associates to optimize the existing process.
- Implemented customer feedback by actively engaging with customers, addressing concerns, and improving team performance based on their input.
- Achieved significant increase in overall customer satisfaction, elevating ratings from 78% to an average of 94% within the first 5 months.

TECHNICAL EXPERIENCE

AI4ALL College Pathways Program: ApplyAI **NMSU**

- Collaborated with a team of peers to develop a pneumonia diagnosis model using computer vision.
- Implemented Histogram of Oriented Gradients (HOG) for feature extraction and evaluated the model using k-fold cross validation technique.
- Achieved a high accuracy of 89% in diagnosing pneumonia using X-rays.
- Utilized Python libraries including Pandas, NumPy, scikit-image, OpenCV, and Matplotlib.
- Earned a certificate of completion and valuable experience in applying AI to real-world problems.

AI4ALL College Pathways Program: DiscoverAI **NMSU**

- Learned about the applications and fundamental technical concepts of AI, including machine learning, gradient descent, and neural networks.
- Investigated ethical implications related to data processing and AI implementation
- Collaborated with peers on a group project to predict spinal cord injuries using a SVM model and a cleaned data set of X-rays.
- Earned a Discover AI Certificate of Completion.