

Alan D. Medina

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EDUCATION

Georgia Institute of Technology

Atlanta, Georgia

Bachelor of Science in Computer Science, GPA: 3.5

- **Concentrations:** Intelligence & Info Internetworks
- **Related Coursework:** Data Structures, Analysis of Algorithms, Objects & Design, Computer Organization, Systems and Networks, Intro to AI, Machine Learning
- **Awards:** Dean's List, Tech Promise Scholar, The Gates Foundation Scholar, Hispanic Scholarship Fund Scholar, MLT CP 2027

TECHNICAL SKILLS

Programming Languages: Java, Python, C, C++, C#, Swift, Objective-C, JavaScript, TypeScript, SQL, Flask, React, HTML/CSS

Technologies & Frameworks: Git, Docker, Firebase, Postman, VS Code, Heroku, Jupyter, IPFS, MetaMask, Pandas, NumPy, React, Remix, Node.js, Android Studio, PyTorch, Ant Design

EXPERIENCE

Georgia Institute of Technology Admission's & AI Department | Data Science Intern

Dec 2024 - Present

- Designed and trained a logistic regression model on admissions data from 5,000+ applicants, incorporating demographic, academic, and extracurricular features; improved yield rate prediction by 18%, informing outreach to underrepresented groups
- Developed an automated ETL pipeline using Python (Pandas, NumPy) and SQL to clean, transform, and integrate admissions datasets; reduced manual prep time by 70% and delivered dashboards for admissions trend analysis

Peachtree Immediate Care AI Systems Lab | SWE Intern

Jan 2025 - Aug 2025

- Built a real-time anomaly detection system using scikit-learn to classify irregularities in system logs, improving error detection and IT response efficiency by 20%
- Designed backend automation scripts in Python to handle system diagnostics and configuration checks across 5+ clinics, reducing manual workload by 16% and enhancing uptime

KidsNextCode | Programming Instructor Intern

Jun 2024 - Aug 2024

- Developed a 6-week, 12-module coding curriculum with a focus on hands-on projects in Python, JavaScript, and HTML; improved student comprehension as reflected by a 30% increase in assessment scores
- Mentored 150+ middle and high school students in web and game development, delivering foundational programming education

PROJECTS

Neural Network Model Development & Evaluation | Python, PyTorch, NumPy

- Designed and implemented MicroTorch, a lightweight neural network framework built from scratch in Python, including custom layers, activation functions, loss functions, and backpropagation, to solve XOR regression and classification problems
- Implemented end-to-end ML workflows including data preprocessing, model architecture design, training loops, evaluation metrics, and accuracy validation across multiple random seeds

GT Vertically Integrated Project - Empathy Bytes | Unity, Luma AI, React Native, Figma, Drupal, JavaScript

- Built immersive XR environments in Unity and Blender, integrating 12+ cultural 3D models and Luma AI scans to reconstruct historical sites, which increased user immersion ratings by 23% in pilot testing and strengthened cultural storytelling experiences
- Developed and deployed a responsive website with Drupal, JavaScript, HTML/CSS, and Figma, integrating interactive AR overlays, implementing enhanced cross-platform access to digital archives boosting repeat visitor engagement by 30%

Outamation - AI & Automation Externship | OpenCV, LlamaIndex, Retrieval-Augmented Generation (RAG), NLP

- Built AI - powered workflows to automate document classification and data extraction, using Natural Language Process (NLP), Computer Vision, and Python-based pipelines (PyMuPDF, OCR techniques)
- Developed a retrieval system with LlamaIndex and Retrieval-Augmented Generation (RAG) to improve information search accuracy across mortgage documents, while evaluating open-source AI models for performance optimization

LEADERSHIP & PROFESSIONAL DEVELOPMENT

Google Latinx Student Leadership Summit | Student Leader

Apr 2024

- Selected from thousands of applicants along 50 others for a program featuring fireside chats, leadership sessions, skill-building workshops, and professional development

Student Organization for Latinos in Computing (SOLC) | Co-Founder & Vice President

Nov 2023 - Present

- Co-founded and led a student org to empower Latinos in tech; built partnerships with Google, Goldman Sachs, Pinterest, and others to host workshops, panels, and events reaching 100+ students across campus

Other Activities: The D. E. Shaw Group Nexus Fellow, Susquehanna International Group (SIG) Tech Discovery Day Fellow, Bloomberg Hispanic Tech Summit, Capital One Black and Hispanic Tech Summit Fellow, J.P. Morgan Code For Good Fellow