

Alan D. Medina

(678) 654 - 4672 | alandmedina13@gmail.com | [linkedin.com/in/alandmed/](https://www.linkedin.com/in/alandmed/) | github.com/alandanmed | alandanmed.github.io

EDUCATION

Georgia Institute of Technology - College of Computing

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 | *IT 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%

Outatuation - 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