

# Alan D. Medina

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## 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 & Algorithms, Objects & Design, Computer Organization & Programming, Intro to AI
- **Awards/Honors:** The Gates Foundation Scholar, Hispanic Scholarship Fund Scholar, MLT CP 2027, SEO EDGE, Dean's List

## TECHNICAL SKILLS

**Languages/Frameworks:** Java, Python, JavaScript, Flask, React, C++/C, HTML/CSS, Node.js, TypeScript, SQL, Go, Ruby

**Databases:** PostgreSQL, MySQL, Firebase, Supabase, Redis

**Tools:** Git, Visual Studios, PyCharm, IntelliJ, Eclipse, MySQL Workbench, Android Studio, Cursor AI, Docker, AWS, Vercel, Railway

## 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

**GT Vertically Integrated Project - Empathy Bytes** | Unity | Luma AI | React Native | Swift | Xcode | 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
- Designed and prototyped mobile apps with React Native, Swift, and Figma, adding interactive AR overlays and streamlined navigation tested by 25+ users, improving usability survey scores by 13% and enhanced cross-platform access to digital archives
- Developed and deployed a responsive website with Drupal, JavaScript, and GitHub, implementing a searchable archive with keyword tagging and a multimedia gallery boosting repeat visitor engagement by 30% and improved archival accessibility

**Outamation - AI & Automation Externship** | Python | 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
- Synthesized technical findings by compiling a comprehensive analysis of top AI models for document processing, highlighting key challenges, optimization strategies, and real-world deployment recommendations

## LEADERSHIP & PROFESSIONAL DEVELOPMENT

**Student Organization for Latinos in Computing at Georgia Tech** | *Co-Founder & Vice President*

Feb 2024 - Present

- Utilized graphic design skills to effectively communicate the organization's mission and values to the student body and broader community that led to a 40% rise in 10+ workshops focusing on career development in SWE

**Lambda Theta Phi Latin Fraternity Inc. Georgia Tech Associate Chapter** | *Communications Officer*

Aug 2024 - Present

- Increased follower engagement on social media by 30% through targeted social media strategies and updates for 30+ members

**SEO Career** | *EDGE Participant*

Jan 2025 - Present

- Receive coaching and online instruction to achieve targeted interview, technical, and professional, development goals

**Other Activities:** The **D. E. Shaw Group** Nexus Fellow, **Susquehanna International Group (SIG)** Tech Discovery Day Fellow,

**Google** Latinx Student Leadership Summit, **Capital One** First Gen Focus Fellow, **Accenture** Student Leadership Program,

**Bloomberg** Hispanic Serving Institute Tech Summit, **Capital One** Black and Hispanic Tech Summit Fellow, **J.P. Morgan** Code For

Good Fellow