

# Alan D. Medina

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