

Alan D. Medina

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EDUCATION

Georgia Institute of Technology - College of Computing

Bachelor of Science in Computer Science, GPA: 3.5

Atlanta, Georgia

- **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 Office | Data Science Intern

Dec 2024 - Present

- Contributed to outreach presentations in collaboration with an admissions officer to connect with over 500 students from underrepresented communities, advocating for DEI services and support programs at Georgia Tech
- Analyzed admissions data for 5,000+ applicants using Excel, identifying trends in yield and enrollment rates to inform recruitment strategies targeting underserved populations

Peachtree Immediate Care | IT SWE Intern

Jan 2025 - Aug 2025

- Resolved 86+ technical support requests weekly across 5+ clinic locations via a centralized ticketing system, consistently resolving issues within 24 hours and reducing clinic downtime by 23%
- Developed and deployed internal scripts to automate configuration checks and system diagnostics during 15+ network upgrades, improving IT response time and ensuring compliance with HIPAA security standards

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 & Media Chair

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