

Ben Doan

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EDUCATION

Georgia Institute of Technology

Atlanta, GA

Bachelor of Science in Computer Science + Media, Threads: Artificial Intelligence

May 2029

Relevant Coursework: Object-Oriented Programming, Linear Algebra, Computing & Ethics

Honors: Dean's Scholarship (May 2026) – Top 1% merit award for incoming undergraduates on excellence and leadership

TECHNICAL SKILLS

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

Frameworks: React, Node.js, FastAPI, Next.js, SwiftUI, Unity

Developer Tools: Git, CI/CD, Docker, AWS, Linux, PostgreSQL, MongoDB, Neo4j, REST APIs

ML/AI: PyTorch, LLMs, RAG, LangChain, scikit-learn, OpenCV, MediaPipe, pandas, NumPy, OpenAI/Gemini API

EXPERIENCE

AI/ML Engineer

Sep 2026 – Present

Big Data Big Impact @ Georgia Tech

Atlanta, GA

- Co-developed SmartPathAI, a platform transforming course PDFs into knowledge graphs and practice exams
- Engineered an AI pipeline using FastAPI and GPT-4o to extract concepts from course PDFs and map relationships in Neo4j, generating 10 personalized knowledge graphs with 1K+ nodes and 1,300+ connections
- Built a Graph-RAG exam generator using graph traversal and GPT-4o with LangChain to replicate exam formats

Software Development Research Intern

Jun 2025 – Aug 2025

George Mason University

Fairfax, VA

- Developed “Carbon City,” a Unity game in C# teaching sustainability habits through simulation to 500+ players
- Led backend development of the game’s simulation engine, handling time, building placement, and resources
- Co-authored research published in the *Journal of Student-Scientists’ Research*, finding that 88% of 125 surveyed players reported improved sustainability knowledge and habits

Student Researcher

Jun 2024 – Aug 2024

Food and Drug Administration (FDA)

Silver Spring, MD

- Engineered a Python data processor using pandas to parse orphan disease records for pharmaceutical research
- Built an automated NumPy script to analyze trends in a 6K-entry drug database, cutting manual review by 80%
- Informed FDA publication priorities by revealing trends in cannabinoid, gene therapy, and immunotherapy research

PROGRAMMING PROJECTS

Uncloak | uncloak.tech | Python, PostgreSQL, TigerData, Next.js, Gemini API

Sep 2026 – Present

- Launched a civic-intelligence platform revealing the location of 1,641 U.S. data centers across 47 states
- Scraped 5,000+ filings from 7 state agencies using Python ETL into PostgreSQL, identifying 164 parent companies
- Automated record extraction with 100% accuracy on all 1,641 records, verified against government filings, by parsing owners, energy capacity, and costs with Gemini API

AI Habit Detection Tool | [GitHub](https://github.com) | Python, MediaPipe, OpenCV, scikit-learn

May 2026 – Present

- Designed a real-time computer vision system using MediaPipe landmarks to detect hair-touching and poor posture
- Trained a 138-feature Random Forest on 24K samples, achieving 89.7% hair-touching and 95% posture accuracy

MCTiers Network & API | mcpvp.com | Python, REST API, Node.js, AWS

Sep 2024 – Present

- Co-founded MCTiers, a competitive Minecraft ranking website with 40K+ peak monthly visits
- Deployed a Node.js REST API on AWS, integrating player rankings into Minecraft plugins with 1M+ downloads
- Programmed a Python Discord bot to automatically sync rankings with the MCTiers API for 75K+ players
- Partnered with YT/TikTok creators to reach 50M+ views, growing Minecraft PvP to generate \$5K in revenue

LEADERSHIP AND COMMUNITY ENGAGEMENT

Global Leadership at Georgia Tech, Selected Student

Sep 2026 – Present

- Co-authored a UN SDG grant proposal for low-cost STEM kits and teacher training in 20 Honduran schools
- Volunteered in service initiatives, packaging 10,000 meals for underprivileged Central American families

Lightning Flower: A Mental Health Community, Founder

Jun 2024 – Present

- Founded 750+ member community and organized check-ins and party games, raising \$500+ for suicide prevention