

Amanda Miller

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[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

EDUCATION

University of Florida

Bachelor of Science in Computer Science; GPA: 3.75, Cum Laude

May 2026

Gainesville, Florida

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL, C++

Frameworks & AI Tools: FastAPI, Flask, React Native, OpenAI API, HuggingFace, LangChain

AI/LLM Systems: RAG pipelines, semantic search, embeddings, vector databases, named entity recognition (NER), OCR workflows, prompt engineering

Developer Tools: Docker, Git, AWS, DigitalOcean, VS Code, Redis, Celery

Concepts: Backend development, API design, relational database design, Agile/Scrum, system architecture

RELEVANT EXPERIENCE

Archive Vision | Python, FastAPI, React Native, HuggingFace, ChromaDB, Docker Jan. 2026 – Present

- Led development of AI-powered mobile research platform for historical archive analysis in collaboration with University of Florida faculty and researchers.
- Architected a React Native frontend and FastAPI backend with core features including OCR, named entity recognition (NER), semantic similarity, vector search, and retrieval-augmented generation (RAG) workflows.
- Designed multi-stage agentic RAG pipeline using conversation history refinement, prompt optimization, and semantic retrieval techniques to improve contextual quality.
- Selected and integrated technologies including GLiNER, ChromaDB, Redis/Celery async task queues, Tesseract OCR, Gemini HTR workflows, Docker containerization, and MySQL.
- Conducted requirements analysis and cross-functional meetings with faculty stakeholders to align metadata generation workflows with research standards set by the American Historical Association.
- Led Agile/Scrum development processes including sprint planning, GitHub issue management, technical presentations, and team coordination.
- Delivered deployable researcher-hosted infrastructure, currently being used by faculty and in ongoing evaluations for expansion through Hamilton AI Lab at University of Florida.

Lemmatica | Python, Flask, Docker, MySQL, Bootstrap, Git Aug. 2025 – Nov. 2025

- Led development of a Spanish-learning web app for social service workers and volunteers, leading the project as scrum master and backend lead.
- Built backend architecture and relational database schema supporting many-to-many relationships and 500+ domain-specific vocabulary terms.
- Deployed the application on DigitalOcean using Docker and Nginx, implementing a demo account system that resets each session for live user testing.
- Documented deployment workflows and open-source project structure to support future development and continued expansion by subsequent student engineering teams.

ADDITIONAL EXPERIENCE

Drainage Professional May 2023 – Mar. 2024

Web Developer & Digital Marketer

Tarpon Springs, FL

- Built and deployed a custom AI chatbot with frontend UI and backend API integration to answer customer questions and guide users to relevant services.
- Redesigned and maintained the company website using WordPress, custom CSS, and original branding.
- Increased business engagement by doubling estimate requests, boosting commercial inquiries, while supporting a 5.0-star Google rating through automated email campaigns.

POW3R Media Oct. 2024 – Dec. 2024

Freelance Technical Writer

Remote

- Researched blockchain, NFT, cryptocurrency, and Web3 gaming systems and produced technical content translating complex concepts for non-technical audiences.
- Managed content publication through WordPress, coordinating SEO, image assets, and source citation across multiple concurrent contracts and deadlines.