Muhammad Azzazy

US Citizen | Open to Relocation

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Education

The American University in Cairo (AUC) Cairo, Egypt

Bachelor of Computer Engineering, Minor in Mathematics (GPA: 3.57/4.00) *Sep. 2020 – Jan. 2025*

Experience

Full-Stack Engineer Apr. 2026 – Present

Deloitte Innovation Hub (DIH) *New Cairo, Cairo, Egypt*

- Developed an AI-powered e-commerce platform using Spring Boot, React (TypeScript), and Tailwind CSS, integrating Python-based Google ADK agents to enable product recommendations, order tracking, and virtual clothing try-on
- Developed Lumos, an AI-powered accessibility solution combining a Raspberry Pi and AI capabilities to help visually impaired individuals identify their surroundings in the workplace; received the *Most Frugal Idea Award* at the *Deloitte Digital MashUp Hackathon*
- Automated Slack workspace onboarding for the *DIH x UNICEF NextStep Mentorship Program* using Python, Slack agents and workflows, and Azure Logic Apps; received the program's *Top Performer Award* for program facilitation

Software Engineer (Research Assistant) Jul. 2025 – Nov. 2025

The American University in Cairo *New Cairo, Cairo, Egypt*

- Engineered an information retrieval tool using Python and n8n for fetching metadata of journal articles based on a list of keywords in a JSON file and publication year
- Gathered technical and business requirements and architected *FebriLogic*, a clinical decision-support platform for differential diagnosis of acute febrile illnesses
- Developed FebriLogic's backend using FastAPI and PostgreSQL and frontend using Streamlit, supporting healthcare professionals in evaluating potential diagnoses
- Maintained the platform through stakeholder feedback, technical support, and bug fixes
- Co-authored a scholarly manuscript documenting the platform's implementation and findings, accepted for publication in *PLOS Digital Health*

Full-Stack Engineering Intern Feb. 2025 – Jul. 2025

PricewaterhouseCoopers (PwC) Egypt Technology & Innovation Center (ETIC) *New Cairo, Cairo, Egypt*

- Developed front-end components for the internal Budget Module using Next.js, and built REST APIs with Node.js to support business logic
- Designed and implemented Python Quart APIs for a Reinsurance Pricing Proof of Concept, including inflation-factor calculations, Excel uploads to Azure Data Lake Storage Gen2, and claims-triangle generation; collaborated with UK engineers through pair programming and code reviews
- Developed and deployed Python Quart APIs on Azure Functions to manage contract documents and metadata in Azure Data Lake Storage Gen2 and Azure Cosmos DB, enabling uploading, soft-deleting, and metadata retrieval; supported Contract Wording Proof of Concept through Agile collaboration with UK engineers

Technical Skills

Languages: Python, Java, JavaScript, TypeScript, C/C++, SQL, Bash, Rust
Backend: Spring Boot, FastAPI, Quart, Node.js
Frontend: React.js, Next.js, Angular, Tailwind CSS, Streamlit
Cloud & Infrastructure: Azure, AWS, GCP, Docker
AI & Automation: Google ADK, n8n
Databases & Tools: PostgreSQL, Oracle Database, MySQL, Git

Certifications

LFCA: Linux Foundation Certified IT Associate Jul 2026

The Linux Foundation

Associate Cloud Engineer Jun 2026

Google Cloud