

ELIA GHAZAL

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Education

American University of Science and Technology (AUST)

Oct 2023 – Jun 2026

B.S. in Computer Science

- GPA 3.81/4.00 | graduated with High Distinction | Distinguished List ×5 | completed in 3 years

Research

CrashLens

2025 – 2026

5-person senior capstone | crashlens.org

- **Accepted, IEEE ICCA 2026** (presenting in person, Cairo, Dec 2026).
- Raspberry Pi 5 edge device (100Hz IMU threshold detection, camera, GPS, cellular uplink) feeding a Cloudflare Workers API and Flutter driver app; cut crash-to-SOS dispatch latency from roughly 14 minutes to about 30 seconds (28×) in bench testing, by decoupling dispatch from video upload.

Paper under anonymous review

2026

ACL Rolling Review, October 2026 cycle

- Details will be shared after the review period (December 2026).

SHARP-RAG

2026

Self-correcting agentic RAG pipeline (LangGraph)

- Zenodo preprint (not peer-reviewed) | github.com/eliaghazal/SHARP-RAG.
- Documented a negative result (15% EM vs. 25% baseline) with systematic failure analysis.

Experience

AI Summer Camp for High-School Students — Instructor

Jul 2026

- Designed and taught a beginner AI/programming curriculum.

Smart Code — Backend Engineering Intern

Sep – Nov 2025

- Built REST APIs (Spring Boot): validation, caching, asynchronous processing, testing.
- Implemented Kafka messaging and a custom socket server for ISO-message point-of-sale transaction flows.

Projects

EmotionAI | *TensorFlow/Keras, OpenCV, Flask/SocketIO*

2026

- Real-time multi-face emotion recognition with a custom SE-attention CNN and a live Grad-CAM dashboard.

DFA Minimization Visualizer | *C++17, Qt 6*

Fall 2025

- Adopted by a professor as a teaching aid in a Theory of Computation course.

Web Bluetooth Medical Fitness Dashboard | *ASP.NET Core, C#*

Fall 2025

- BLE/GATT sensor streaming with user accounts, deployed live; Apple Watch data synced via a native iOS/HealthKit companion app.

Technical Skills

Engineering: Python, Java (Spring Boot), C/C++, TypeScript/JavaScript (Next.js), Flutter, Hono, embedded Linux (Raspberry Pi), PostgreSQL/MySQL/Supabase, Cloudflare Workers, REST design

AI/ML: LLM evaluation & judge auditing, benchmark design, Hugging Face Transformers, RAG/agentic pipelines (LangGraph, ChromaDB), PyTorch, TensorFlow/Keras, OpenCV, statistics (Wilcoxon, Krippendorff's α , Wilson CIs)

Tools: Git/GitHub, Linux, Docker, CI/CD

Certifications: IT Specialist — Python (Certiport, 2024), Cisco CCNA: Switching, Routing & Wireless (2025)

Languages: Arabic (native), English (C2, Michigan ECPE), French (B2, DELF), Italian (intermediate)

Leadership: President, Environmental Club — American University of Science and Technology (AUST)