

Ziad Sameh Mohamed Ahmed Helal

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Professional Summary

Highly motivated and technically adept **Full-Stack Developer** with strong foundations in software engineering and hardware systems. Experienced in building **agentic AI applications** using Agency Swarm, comprehensive **full-stack web development**, and **DevOps deployment** on DigitalOcean. Passionate about B2B growth, scalable systems, and data-driven solutions. A fast learner with strong adaptability, problem-solving, and communication skills, effectively bridging technical and business needs.

Skills

- **Full-Stack Development:** C++, C#, Java, Python
- **Front-end:** React, HTML/CSS/Typescript
- **Back-end Frameworks:** Flask, FastAPI
- **DevOps:** DigitalOcean, Docker, CI/CD Pipelines, GitHub Actions
- **Database Development:** PostgreSQL, SQL, Redis
- **AI & Agentic Systems:** Agency Swarm, Machine Learning, AI Solutions
- **Soft Skills:** Communication, B2B Sales, Troubleshooting, Problem Solving, Adaptability, Detail-Oriented, Organizational Skills
- **Languages:** Bilingual (English & Arabic)
- **Tools:** Microsoft Office, Google Workspace

Education

Bachelor's degree in computer science

Ain Shams University, Cairo, Egypt – 2022 – Present

International General Certificate of Secondary Education

Noor International School, Cairo, Egypt – 2019 – 2022

- 9 GCSEs: English, Maths, Chemistry, Physics, Economics, Accounting, Business, Computer Science, ICT
- 2 A-Levels: Maths, Physics

Professional Experience

AI Software Engineer / Full Stack Developer / DevOps – Genta

Dates: Apr 2025 – Jul 2025

- **Developed** and **deployed** scalable AI systems using Agency Swarm, **improving processing efficiency by 15% and reducing manual data handling by 25%.**
- **Managed** full-stack development, from backend APIs to front-end interfaces built with React, **accelerating feature delivery by 20% and enhancing user experience for key modules.**
- **Automated** deployment workflows using Docker, GitHub Actions, and DigitalOcean CI/CD pipelines, **reducing deployment time from hours to minutes and improving release frequency by 50%.**
- **Optimized** database performance by **30%** using Redis caching with PostgreSQL.

Sales Agent & IT Support Technician – Concentrix

Dates: Jan 2025 – Mar 2025

- **Conducted** B2B outreach for Amazon Business Services, **exceeding sales KPIs by an average of 15% each month.**
- **Provided** technical support and troubleshooting for internal systems and clients, **resolving over 50 IT issues per week with a 95% first-call resolution rate.**

Machine Learning & AI Intern – Zewail City for Science and Technology

Dates: 2024

- **Assisted** in **developing** machine learning models for research-based AI solutions, **contributing to a sentiment analysis project that achieved 92% accuracy on test datasets.**

Banking Intern – Commercial International Bank (CIB)

Dates: Aug 2024

- **Gained exposure** to digital banking systems and internal IT processes, **analyzing workflows and proposing minor efficiency improvements in data entry.**

Arduino Intern *Dates: 2016*

- **Worked** on embedded systems and microcontroller-based project prototypes, **successfully developing a smart home automation prototype that controlled lighting and temperature via mobile app.**

Technical Projects

Road Map Construction System (C++)

- Developed a system for pathfinding and visualizing road maps using adjacency lists and Dijkstra's algorithm, demonstrating efficient route optimization for up to 1000 nodes and visualizing paths in real-time.

Library Catalogue System (Java)

- Created a database-integrated library management system with a user-friendly UI, enabling efficient book search, borrowing, and return functionalities for a simulated library of 5000 books.

2D Game with SFML (C++)

- Designed and built a 2D game using SFML library for graphics rendering and input handling, showcasing strong object-oriented design and graphics programming skills through interactive levels and character mechanics.

Google Maps Scraper (Python)

- Built a Python-based scraper to extract business data from Google Maps using Selenium and BeautifulSoup. Designed logic to filter leads based on online presence (Instagram, Squarespace, Booksy). Outputs structured data as CSV for targeted outreach automation.

Wallet-Full Stack (Python, React)

- Developing a secure, full-stack digital wallet application with a custom React frontend and FastAPI backend. Built user authentication, transaction tracking, and budgeting features. Designed the PostgreSQL schema, implemented REST APIs

Mamba-SEO Platform (Python, React)

- Built a full-stack, AI-powered SEO platform using React for the frontend and FastAPI for the backend. Developed features for domain analysis, keyword tracking, and content optimization by integrating third-party APIs. Deployed on DigitalOcean with CI/CD pipelines

Love Journal (React)

- Built a personal journal-style web app using React, featuring a responsive layout and an animated background using CSS and JavaScript. Focused on front-end interactivity, clean component structure, and lightweight animations for a smooth user experience.

Website Content Monitoring Agency (Python)

- Built a backend tool using FastAPI and the Agency Swarm library to monitor and track content changes on websites. Integrated LLM agents to process and summarize detected changes. Implemented scheduled crawling and content diffing logic, with a lightweight HTML/CSS interface for viewing update history and insights.