Imad Mahmoud

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Profile

Software engineer and Computer Science graduate who builds backend-heavy systems end to end, from a 46k-line Python platform with LLM-based analysis to web and desktop apps for real clients. I test and measure my work before calling it done.

Experience

- **Cyber Security Intern** Sept. 2026 - Present
  TabbeqAI *Lebanon*
  - Built Al-Rased, an OSINT and threat-intelligence platform with LLM-based analysis, using AI-assisted development (Claude Code): about 46k lines of Python (FastAPI), 60 PostgreSQL tables, 52 connectors and 697 tests, deployed as a trial on Oracle Cloud with Docker Compose.
  - Designed an LLM investigation agent on the rule that code decides and the model only judges: plans run under approval gates, budgets and prompt-injection defences, and code-verified claims are kept apart from model hypotheses.
  - Built a monitoring pipeline with checkpointed collection, SHA-256 evidence hashing, change detection and explainable risk scores, plus an entity graph resolved against MITRE ATT&CK, GeoNames and Wikidata.
  - Ran 15 experiments: a verification pass caught 22 of 22 seeded errors in AI-written reports, and parallel collection with connection pooling cut four-source collection time by 75%.
- **Full-Stack Developer (Freelance)** June 2026 - Nov. 2026
  L.O.V.E. America Foundation | new.loveamericafoundation.org *Remote*
  - Replaced a nonprofit's WordPress site with a custom Next.js and React front end and an Express API backed by a 12-model PostgreSQL schema (Prisma), with media stored on Cloudflare R2.
  - Built a PayPal donation flow with hosted card fields so card data never reaches the server, plus webhook signature verification, 3-D Secure enforcement and rate limiting against card testing.
  - Developed a 9-step scholarship application with Zod validation, save-and-resume, uploads and PDF generation, and two role-based admin panels for non-technical staff.
  - Deployed it to production myself: front end on Netlify, API and PostgreSQL on Render, DNS configured through Namecheap, with GitHub Actions CI and automatic migrations on deploy.

Projects

- **Arzaya POS — Desktop Point-of-Sale (Freelance)**: Offline-first EN/AR POS for a cleaning products brand: append-only stock and ledger records, integer USD/LBP money, spreadsheet import. *TypeScript, Electron, SQLite.*
- **Fundraising Event Platform — Lebanese Red Cross (Volunteer)**: Ticketing and finance app for a branch fundraiser: QR check-in, SMS tickets, a USD/LBP ledger, and tests for concurrent payment races. *Hono, Cloudflare D1.*
- **Strategy Backtester & Automated Trading Bot**: Live bot with test-verified no-lookahead execution, crash-safe state and restart recovery; runs on systemd or GitHub Actions. *Python.*

Skills

- **Languages & Frontend**: Python, TypeScript, JavaScript, PHP, Java, SQL, C#, Bash; React, Next.js, Tailwind, Electron
- **Backend**: FastAPI, Node.js, Express, Hono, Spring Boot, .NET (C#), PostgreSQL, SQLite, MySQL, Prisma, REST APIs
- **AI & Data**: LLM integration (OpenAI, Gemini, Claude), agents, prompt-injection defence, GLiNER, OpenCV, EasyOCR
- **DevOps & Tooling**: Docker, GitHub Actions, Linux, DNS (Namecheap), Cloudflare, Render, Netlify, Git, pytest, Vitest, Playwright

Education

- **Lebanese American University** Beirut, Lebanon
  M.S. in Data Science (in progress) *Sept. 2026 – Present*
- **Lebanese American University** Beirut, Lebanon
  B.S. in Computer Science; GPA: 3.5 *Aug. 2023 – May 2026*

Extracurricular

- **SemiColon's CTF**: Competed in Lebanon's first CTF (reverse engineering, web exploitation, cryptography).
- **Lebanese Red Cross — EMS Volunteer**: Ambulance crew responding to emergency calls (Mar. 2026 – Present).