

ALI I. AWDEH

AI & Backend Software Engineer | Automation & Process Improvement

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Dohat Al Hoss, Mount Lebanon, Lebanon

EXPERIENCE

Software Engineer — AI Automation & Process Improvement

Maid's.cc

Sep 2025 – Present

Dubai, UAE

- Designed and implemented **AI-driven automation systems** for recruitment, document verification, applicant evaluation, and operational follow-up workflows.
- Built **LLM-based agents** for OCR, vision analysis, multi-step decision logic, and structured applicant guidance.
- Developed **evaluator logic and QA workflows** to detect missed tool calls, incorrect actions, policy violations, and failed conversation states in production chatbot flows.
- Engineered **n8n workflows, custom API integrations, and AI pipelines** aligned with complex business rules and operational requirements.
- Wrote **SQL-based reporting and monitoring logic** to track applicant status changes, joining dates, ticket dates, contract expiry, and process performance.
- Collaborated with business analysts, operations, and engineering teams to convert manual workflows into structured, AI-assisted systems.

Software Engineer — ML & Data Systems

Senal Forex

Sep 2024 – Aug 2025

Beirut, Lebanon

- Designed and implemented **ML-backed analytics features** for financial market analysis, trend detection, and signal generation.
- Built **time-series data pipelines** and performed feature engineering on historical price and volume data to support predictive analytics.
- Designed and maintained **internal software and a customer data platform** to centralize market data, model outputs, and user activity for analytics and decision support.
- Evaluated models using statistical and ML metrics, iterating on features to improve stability and reduce noise sensitivity.
- Integrated ML outputs into **backend services and APIs** for downstream consumption and decision support.

Backend Developer Intern

Esri Lebanon

Jul 2024 – Aug 2024

Beirut, Lebanon

- Designed and implemented the backend and database for a **Training Management System** using TypeScript, Express, and SQL.
- Built admin tooling for session management and trainee tracking, reducing reporting time by **40%**.

SUMMARY

Software engineer focused on **AI systems, backend integrations, workflow automation, and process improvement**. Experienced in building **LLM-powered tools**, automation pipelines, APIs, and data-driven systems that improve real business operations. Strong at translating complex business rules into reliable technical workflows across product, operations, and engineering. **Award-winning inventor** with **2 patents** and **9 international medals**.

CORE SKILLS

Backend: REST APIs, microservices, validation, error handling, async processing, JWT, service integrations

Languages: Java, Spring Boot, TypeScript, Node.js, Express, Python, SQL, MySQL

AI & LLM Systems: LLM agents, prompt engineering, tool calling, OCR/vision workflows, output validation, evaluator logic, JSON rubrics, guardrails

Automation/Data: n8n, Snowflake SQL, process automation, reporting pipelines, data validation, API integrations, operational alerts

Cloud/DevOps: Docker, AWS EC2/S3, Nginx, Linux Ubuntu, CI/CD, GitHub Actions, Git

Machine Learning: Supervised learning, time-series analysis, feature engineering, model evaluation, TensorFlow, Scikit-learn, Keras, Pandas

Blockchain: Smart contracts, DApps, tokenomics

AWARDS & PATENTS

- 9 International Awards** including multiple **Gold Medals** at Geneva International Invention Exhibition, IIFME, and IENA
- 2 Patents:** Smart Wind Controller; Magnetic Propulsion Prototype / M-Gun
- IFIA Member**
- Full list:** aliawdeh.com/awards

- Tuned queries and data flows to handle **10,000+ records** with zero downtime during import.

Founding Engineer & Technical Lead

Senal Crypto

Aug 2021 – Aug 2022

Beirut, Lebanon

- Led product and engineering delivery for a blockchain and DeFi startup, owning roadmap, system design, and technical execution.
- Built internal analytics tooling, dashboards, and data pipelines to support market analysis and operational decision-making.
- Designed and applied statistical models for market behavior analysis, token performance tracking, and risk indicators.
- Implemented security protocols and coordinated smart contract review processes to protect clients and partners.
- Managed a cross-functional team and shipped production features balancing backend reliability, analytics, and on-chain constraints.

EDUCATION

B.S. in Computer Communication Engineering

Antonine University

Sept 2020 – Jun 2026 (Expected)

Lebanon

- **Pause (Aug 2021 – Aug 2022):** Took a year off to launch and lead **Senal Crypto**, gaining hands-on entrepreneurial and technical leadership experience.
- Focus: software development, network systems, backend systems, AI, and emerging technologies.

VOLUNTEERING

- **Technology Educator:** Teaching children computer literacy and technology skills.
- **Community Volunteer:** Organized village clean-ups and environmental awareness activities.

PRESENTATIONS

- **Opening Speaker**, Arab Youth Festival: Addressed ministers and representatives from Arab nations.
- **Meet & Greet with Lebanese Inventors:** Spoke to 1,000+ students about innovation.

LANGUAGES

Arabic — Native

English — Fluent

French — Professional