

Wassim Bannout

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SKILLS

Programming Languages: C, Python, JavaScript, TypeScript, SQL

Frameworks & Web: React, React Native, Redux, Node.js, Express, Django, Flask, GraphQL, HTML5, CSS

AI / LLM: LLM integration (Ollama, OpenAI, LM Studio), RAG, token streaming (SSE)

Testing & CI/CD: Jest, Cypress, pytest, GitHub Actions

Tools: Git, GitHub, Docker, SQLite, PostgreSQL, MongoDB, Linux, Bash

Languages: Arabic, English, French

WORK EXPERIENCE

IP Engineering Pro

Beirut, Lebanon

Software Developer

Jan 2026 – Feb 2026

- Built business applications on the ERPNext/Frappe platform (Python), including a point-of-sale system for a supermarket client, turning requirements into working ERP workflows.
- Executed end-to-end data migration for a banking client, validating and cleansing error-prone spreadsheets (malformed formats, missing columns) before import to preserve data integrity in the move to ERPNext.
- Extended the production codebase with a scheduled-automation feature supporting dual execution modes — an on-demand manual trigger and an automated daily run that eliminated a recurring manual task — delivered in Agile sprints tracked on Jira.

IDS Fintech

Beirut, Lebanon

Software Development Intern

Nov 2025 – Dec 2025

- Strengthened SQL and relational database fundamentals — query writing, schema design, and data integrity — within a fintech data environment.
- Ramped onto the .NET backend stack (C#, the Repository Pattern, Dapper) to build clean, testable data-access layers, in preparation for developing a full-stack library management system.

MyMonty

Beirut, Lebanon

Frontend Developer Intern

Mar 2025 – May 2025

- Built responsive, component-based UI in Angular and TypeScript, rapidly onboarding to the framework and applying it to hands-on frontend development.
- Translated design mockups into functional, responsive interfaces — layout, styling, and interactive components to spec.

PROJECTS

AcquireIntel | *Python, Scrapy, Playwright, PostgreSQL, Flask, Docker*

[GitHub](#)

- Built a pluggable data-acquisition engine extracting product and price data via three techniques (Scrapy + Playwright, REST, GraphQL) behind one source-plugin contract, feeding an append-only PostgreSQL price-history series with pydantic validation and data-quality gates.
- Engineered an anti-bot resilience layer — proxy-pool and identity/fingerprint rotation, adaptive throttling, exponential backoff honoring Retry-After, and a per-domain circuit breaker — proving deterministic recovery against a self-built adversarial mock server across 7 hostile scenarios (blocks, CAPTCHA/cookie walls, soft-bans).
- Shipped a Flask API and Chart.js dashboard with scheduled and token-gated on-demand crawls; enforced 300+ automated tests in GitHub Actions CI (ruff, mypy, pip-audit), validated end-to-end against a live Shopify store.

VoiceScript AI | *Python, FastAPI, faster-Whisper, React, TypeScript, Ollama, Docker*

[GitHub](#)

- Architected a speech-processing pipeline (FastAPI + faster-Whisper) with token-by-token LLM refinement streamed via Server-Sent Events (SSE).
- Designed a pluggable LLM interface supporting Ollama, OpenAI, and LM Studio across 5 domain presets, enabling provider swaps without application restarts.
- Containerized the system with Docker Compose for fully offline operation with no external data transmission.

EDUCATION

American University of Beirut

Beirut, Lebanon

Bachelor of Science, Computer Science

2023 – 2025

- Relevant Coursework: Algorithms & Data Structures, Operating Systems, Computer Organization & Design, Machine Learning, Data Science, Software Engineering

American University of Beirut

Beirut, Lebanon

Bachelor of Business Administration

2018 – 2021