

Wassim Bannout

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SKILLS

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

Frameworks & Libraries: Spring Boot, Node.js, Flask, Django, React, React Native, Bootstrap, scikit-learn, Pandas, NumPy, JUnit, Jest

Tools: Git, GitHub, Docker, SQLite, MySQL, Linux

Concepts: Object-Oriented Programming (OOP), REST APIs, Agile/Scrum, Continuous Integration

Languages: Arabic, English, French

WORK EXPERIENCE

IP Engineering Pro

Beirut, Lebanon

Software Developer

Jan 2026 – Feb 2026

- Orchestrated ETL pipelines to migrate legacy business data into a new enterprise schema, preserving referential integrity across multiple relational tables.
- Delivered backend modules implementing business logic and workflow automation within an enterprise software environment, working in Agile/Scrum sprints with cross-team collaboration.

IDS Fintech

Beirut, Lebanon

Software Development Intern

Nov 2025 – Dec 2025

- Developed backend service components and REST API endpoints within a fintech platform, interfacing with relational databases using SQL.
- Engineered data-layer modules with a focus on schema design and query correctness under financial data integrity requirements.

MyMonty

Beirut, Lebanon

Frontend Developer Intern

Mar 2025 – May 2025

- Shipped UI components and client-side features within a production web application, translating design specifications into functional browser-ready interfaces.
- Integrated front-end views with backend REST APIs, ensuring consistent data rendering across user-facing workflows.

PROJECTS

Reckon | Java 21, Spring Boot 3, Spring AI, pgvector, Docker, Testcontainers

- Built a Spring Boot 3 service for citation-grounded Q&A over SEC 10-K filings via Retrieval-Augmented Generation, featuring token-aware PDF chunking, pgvector cosine-similarity search, and a local Ollama runtime (gemma3:4b chat, nomic-embed-text embeddings) that runs with zero external API dependencies.
- Designed clean Spring layering across controller, service, repository, and DTO packages with Jakarta Bean Validation on externalized configuration; covered the full ingest-to-answer pipeline with a Testcontainers integration test and a Continuous Integration pipeline via GitHub Actions.

OctoPredict | Python, FastAPI, XGBoost, SQLite, APScheduler, Docker

- Developed an XGBoost pipeline producing calibrated 3-class win/draw/loss probability predictions, trained on 3 seasons of data across 4 European leagues with 22 engineered features (Elo, H2H, form, rest days).
- Automated fixture syncing and weekly model retraining via APScheduler, eliminating all manual intervention post-deployment.
- Exposed feature-transparent REST endpoints via FastAPI; deployed with Docker Compose using SQLite in WAL mode for concurrent read performance.

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

- Architected a speech processing pipeline using FastAPI and faster-Whisper with token-by-token LLM refinement streamed to the client 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 full system with Docker Compose; engineered 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