

Farah Sherry

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SUMMARY

AI Software Engineer specializing in LLM applications, RAG pipelines, and full-stack development. Experienced in building scalable AI driven systems, designing end to end testing workflows, and delivering clean, maintainable codebases. Strong analytical mindset with a focus on performance, usability, and real-world impact. Passionate about leveraging emerging technologies to solve meaningful problems.

EXPERIENCE

AI Software Engineer | Aspire Software

June 2025 – Present

- Developed an AI-powered chatbot for a loan company using LLMs, LangChain, and RAG, replacing manual query-based workflows and streamlining data retrieval from large datasets.
- Implemented a multi-agent architecture to handle different user roles and data retrieval scenarios, improving system efficiency and scalability.
- Contributed to a full-stack SMS marketing platform (NestJS, PostgreSQL, Prisma, Next.js 14, React), working across campaign management, bulk messaging, contact segmentation, delivery tracking, and analytics features.
- Participated in integrating Twilio for SMS delivery, OpenAI (GPT-4o mini) for AI-powered message enhancement and smart filter parsing, and Google Business Profile/Trustpilot for automated review aggregation.
- Contributed to UI/UX feature design and the overall look and feel of the platform, ensuring a user-friendly interface and a well-structured, maintainable codebase.
- Designed and implemented an agentic testing workflow using Playwright, enabling automated end-to-end test orchestration and significantly reducing manual QA overhead.
- Debugged and resolved critical issues in a .NET and Angular application, improving overall system stability and reliability.

Artificial Intelligence Developer | Lead by Tech

September 2024 – May 2025

- Built a speech-to-text, LLM, and text-to-speech pipeline using Whisper AI, LangChain, and RAG, enabling spoken natural language responses generated from structured data sources.
- Developed a number recognition system using YOLOv5 and computer vision to automatically process and extract numeric data from a generator feed.
- Created an AI-powered conversational chatbot integrated into a Unity application, delivering interactive and context-aware user experiences.

TECHNICAL SKILLS

- Programming Languages: Python, JavaScript, TypeScript, C/C++, C#, Java, PHP, HTML, CSS, SQL
- AI & Machine Learning: LangChain, RAG, LLMs, TensorFlow, PyTorch, Scikit-learn, OpenCV, Hugging Face Transformers, YOLOv5, Whisper AI
- Frameworks & Full-Stack: NestJS, Next.js, React, Angular, FastAPI, ASP.NET
- Databases: PostgreSQL, MySQL, SQLite, Firebase
- DevOps & Testing: Git, Docker, Playwright, Postman, Swagger, Redis
- Cloud Platforms: AWS, Google Cloud Platform (GCP)
- Security & Auth: JWT, Passport.js, CASL (RBAC), bcrypt, MFA, AES/HMAC-SHA256 encryption

PROJECTS

SentinelAI — Threat Monitoring & Alert Platform — React, AI, Analytics

- Built an AI powered threat monitoring dashboard with live threat feeds, regional filtering, and AI generated alert messages tailored by audience (General Public, Schools, Utilities) and tone (Urgent, Informational, All Clear).

- Integrated AI driven audience segmentation and analytics to support real time emergency communication and escalation decision making.

AI Customer Support Agent — LLMs, LangChain, RAG, Gemini AI

- Built an AI powered customer support chat with natural language conversations, order tracking, automated ticket creation, human escalation triggers, and real time status updates.

Baby Food Business Platform — React, Node.js, MySQL

- Developed a full stack web platform for a baby food business, featuring a customer facing ordering website and an admin panel for managing incoming orders, products, and fulfillment.

E-Commerce Website — React, Node.js, MySQL

- Built a full stack e-commerce platform with product management, order processing, and online payment handling.

EDUCATION

- M1 in Computer Science — Lebanese University (2024)
- BSc in Computer Science — Lebanese University (2024)

LANGUAGES

- Arabic — Native
- English — Professional Working Proficiency