

ESLAM WAEI

Software Engineer

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PROFESSIONAL SUMMARY

Software Development Engineer with 4+ years of professional experience (full-time and contract) building low-latency backend services, agentic APIs, and LLM-integrated systems. Hands-on experience designing multi-agent orchestration using Semantic Kernel and the Model Context Protocol (MCP), RAG pipelines, and real-time distributed application architecture. Comfortable across the stack — Python, C#/.NET, TypeScript, and Node.js — with a strong focus on system design, clean architecture, and low-memory, high-throughput services.

CORE TECHNICAL SKILLS

Agentic AI & LLMs: Multi-Agent Orchestration, Semantic Kernel, Model Context Protocol (MCP), Agentic APIs, RAG Pipelines, Tool-Calling, Vector Databases

Languages & Backend: Python, C# (.NET), TypeScript, JavaScript (ES6+), Node.js, Express, NestJS, REST APIs, WebSockets, Microservices

Cloud & Systems: Docker, Redis, PostgreSQL, MongoDB, System Design, Domain-Driven Design (DDD), CI/CD, Azure DevOps, Linux (Bash), Git

Frontend: React.js, Next.js, TypeScript — used to ship full-stack features end to end

PROFESSIONAL EXPERIENCE

Senior Software Engineer, Full-time — Digital Next

Jan 2026 – Present | Abu Dhabi, UAE (Remote)

- Architected and deployed 4 autonomous, task-specific AI agents integrated with a central Agent Orchestrator built on Semantic Kernel, for a large-scale UAE government platform (PCMS).
- Built an AI-powered OCR ingestion pipeline processing operational metadata with sub-100ms response times.
- Delivered backend and full-stack workflows in C# (.NET) and TypeScript/Next.js, maintaining engineering standards through code review in Azure DevOps.

Software Engineer, Part-time — ESS

Jul 2025 – Present | Riyadh, Saudi Arabia (Remote)

- Integrated a unified MCP server/client architecture with Redis caching for secure, low-latency LLM data orchestration.
- Contributed to a multi-tenant e-commerce backend serving merchants across 8+ countries using Node.js, NestJS, and PostgreSQL.
- Applied Domain-Driven Design (DDD) to cleanly separate agentic AI capabilities from core application logic.

Software Engineer, Contract — Bringovia

Jul 2024 – May 2025 | London, UK (Remote)

- Designed both front-end and backend architecture for JoudPay, a near-complete payment system comparable to InstaPay.
- Built SmsID, a business SMS platform, and SOSAlert, a real-time family-safety alerting system.

Software Developer, Contract — Zenon Software

Mar 2022 – May 2025 | Cairo, Egypt (Remote)

- Long-running contract engagement delivering web applications and dashboards for multiple clients, including a competition leaderboard system and a task-management dashboard for schools.

Additional Experience (short-term contract engagements)

- Functo Software House** — Software Engineer, Full-time (Apr–Aug 2025): ERP system with DDD architecture and real-time WebSocket notifications.
- Anytime Software** — Full Stack Developer, Full-time (Feb–Mar 2024): automated data-ingestion services with NestJS and Express.
- EFM Hub** — Software Developer, Contract (Jan–Jul 2024): large-scale accounting system.
- Eng Money** — Software Developer, Contract (Feb–Jun 2024): financial systems for e-wallets and transactions.

KEY ENGINEERING PROJECTS

Tigerbase — Agentic AI Orchestration Platform & SDK

Nov 2025 – Present

Next.js, Python, Node.js, Express, PostgreSQL, Docker, RAG Engine, TypeScript

- Engineered extensible agentic APIs and an open-source TypeScript SDK published on npm for low-latency payload streaming to third-party systems.
- Built a high-performance RAG ingestion engine and a lightweight, low-memory CDN JavaScript widget.

EngimaSystem — Enterprise ERP & POS Ecosystem

Dec 2025 – Present

Next.js, NestJS, PostgreSQL, Redis, Docker, WebSockets, Offline-First Architecture

- Architected an offline-first system with background cloud synchronization and real-time WebSockets, ensuring uninterrupted operation during connectivity loss.
- Built a high-granularity RBAC system with 300+ permissions and integrated an AI business agent for automated inventory and financial analysis.

Broasted King (BFC) — Restaurant Management Platform

Dec 2024 – Feb 2025

Next.js, TypeScript, Prisma, PostgreSQL, Pusher, WebSockets

- Architected a real-time order synchronization engine using Pusher and WebSockets for instant bidirectional updates across customer, admin, and kitchen display systems.
- Designed a scalable PostgreSQL schema with Prisma handling multi-role access, product variants, and dynamic pricing rules.

EDUCATION

Bachelor of Artificial Intelligence & Information Systems

Horus University, Egypt — Expected Graduation: June 2028