

Adem Amen Allah Thabti

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Profile

Software Engineer with a strong focus on backend architecture and distributed systems, particularly within banking and financial services. Skilled in designing secure APIs, automating core business workflows, and optimizing data-intensive systems for high concurrency and reliability. Has grown into a technical leadership role, owning architecture decisions and driving projects from design to production. Committed to writing clean, maintainable code that scales with evolving business needs.

Experience / Projects

Proxym Group

- **MyCoris Multi-Tenant Banking Platform**

- Designed and implemented secure RESTful APIs for banking services using Java and Spring Boot.
- Modeled and automated core banking workflows with Flowable BPMN, improving task traceability and reducing human error.
- Optimized database schemas and complex queries to support high-concurrency and improve system performance.
- Progressed into a Backend Lead role, taking ownership of core backend architecture and critical services.
- Led backend development, coordinated with cross-functional teams, and ensured successful production deployment and stability.
- Contributed to scaling the platform to support multi-tenant architecture across multiple entities.

- **Coris Claims Platform**

- Contributed to a centralized claims management system serving 11 country branches, covering retail, corporate, and other banking products.
- Worked in a data-oriented backend role, focusing on analytics, logging, reporting, and data visualization.
- Built and optimized data pipelines and queries to support operational monitoring and business insights.
- Ensured data reliability and traceability to support decision-making across multiple regions.

- **Customer Service Application (CORA)**

- Built a dynamic, workflow-driven process management system to handle customer service operations.
- Designed and integrated a RAG-based architecture to enable contextual search and intelligent response generation across customer interactions.
- Developed agent-driven workflows to orchestrate tasks, automate decision flows, and enhance support efficiency.
- Implemented semantic caching using embeddings to detect near-duplicate queries, reducing redundant LLM calls and significantly lowering API costs.
- Optimized token usage through prompt design, response structuring, and context management to improve performance and cost efficiency.
- Introduced intelligent search mechanisms combining full-text and vector-based retrieval for more accurate and relevant results.
- Leveraged asynchronous and batch processing for non-real-time workloads such as summarization, analytics, and reporting to improve system efficiency.
- Improved workflow efficiency and reduced manual intervention through automation.

LOOP

- **Mahdar AI Platform**

- Contributed to the development of Mahdar AI, an enterprise meeting intelligence platform designed for secure, on-premises deployment.
- Built backend services supporting real-time, speaker-aware transcription pipelines with low-latency processing across multiple meeting platforms.
- Designed and integrated RAG-based search capabilities, enabling users to query past meetings and retrieve context-aware, source-grounded answers.
- Implemented semantic search combining full-text indexing and vector embeddings for efficient retrieval across large-scale meeting data.
- Developed AI-driven features including automated summaries, action item extraction, and smart tagging to enhance meeting productivity.
- Designed multi-workspace architecture with strict data isolation to support multiple organizations and clients.
- Contributed to Kubernetes-native, air-gapped deployment architecture ensuring scalability, reliability, and full on-premises operation.
- Participated in secure on-premises deployments for Saudi government entities, including Ministry-level environments, ensuring compliance, data sovereignty, and full infrastructure control.

Dentallx

- Contributed to the development of Dentallx, a B2C/B2B platform for dentists combining social networking, a product marketplace, and educational services.
- Developed RESTful APIs for social features, event management, and marketplace capabilities using NestJS.
- Deployed and secured the backend on AWS, including EC2 setup, database configuration, and IAM/VPC hardening.

ISIMM – End of Study Project

- Built a distributed e-commerce platform capable of processing 10K+ transactions per day with sub-second latency.
- Implemented an event-driven microservices architecture using RabbitMQ.
- Solved complex challenges including distributed transactions and real-time inventory synchronization.

Education

EPI Digital School

National Engineering Degree in Computer Science – Specialization: Software Engineering

Higher Institute of Informatics and Mathematics of Monastir ISIMM

Bachelor's degree in Software Engineering

Technologies

Languages: Java, Python, TypeScript, Dart, SQL

Frameworks: Spring Boot, Django, NestJS, FastAPI, Flutter

Tools: PostgreSQL, MongoDB, RabbitMQ, Redis, Kafka, Docker, GitLab CI, Keycloak, Flowable, OpenAPI, AWS

Languages

Arabic (Native), English (Fluent), French (Fluent)