

# Ahmed Ismail

## Senior Full-stack Engineer

Porto, Portugal

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### Summary:

Product-minded Senior Full-Stack Engineer and Technical Lead with over a decade of experience owning complex features end-to-end across modern web products and high-throughput services. Based in Porto, Portugal, I engage internationally via my B2B LLC, providing reliable overlap with US and EU time zones.

- **Modern Web & AI:** Building real-time and AI-powered experiences using React, Next.js, Node.js, langchain and NestJS w
- **Data & Scale:** Custom search relevance with Elasticsearch, high-throughput messaging with Kafka, and advanced data modeling in Postgres and TimescaleDB.
- **Infrastructure & Quality:** Ensuring strict performance budgets and reliability through GitOps (FluxCD), IaC (Pulumi, Terraform), Kubernetes, and comprehensive automated testing.
- **Observability:** Building systems that provide and observable state for easy debugging, recovery and monitoring using tools such as Grafana, Loki, Jaeger, Prometheus, OpenTelemetry and sentry. Enabling data driven decisions
- **Product Insights:** Providing valuable and actionable product usage insights using tools such as posthog and exporting valuable usage insights from applications. I have also leveraged posthog for A/B testing, conditionally rolling out features and feature flags.
- **Building Realtime UIs:** Using SSE and websockets and optimizing for low time to first byte and good p95 targets (monitored via observability tools and tested with stress testing tools such as artillery) to provide realtime dashboards and other UIs.
- **Profiling and Performance Debugging:** Experienced with SQL query tuning, navigating application traces and profiling hot paths. I have also created various caching strategies for applications to improve performance and leveraged tools such as ElasticSearch to provide optimized indexes for complex queries.
- **Security minded:** input validation, authz boundaries, sensible rate limits, rotating secrets and following best practice guidelines such as those recommended by OWASP

## Core Stack:

**Programming Language:** C++, C, Javascript, Typescript, Python, Ruby, Prolog, Rust & Java

**Frameworks:** Nextjs, Nestjs, React, django, flask, quartz, langgraph, langchain, Ruby on Rails.

**Tools & Services:** Redis, memcached, nginx, PostgreSQL, mongoDB, DynamoDB, AWS lambda, ElasticSearch, Kafka, RabbitMQ, timescaleDB, docker and cassandrdb.

## Professional Experience:

**Mindera / Senior Software Engineer**

Jul 2025 - Nov 2025, Remote

Limited time contract. Implemented frontend features for e-commerce loyalty program using Angularjs

**Refound / Software Engineering Manager**

Feb 2025 - May 2025, Remote

Lead architect and team lead limited time contract on an agentic leadership coaching platform. Working with React, Next.js and Python.

- 5k active users
- Leading a team of 5 engineers
- Introduced CI/CD pipeline
- High test coverage using vitest and playwright
- Bootstrapped engineering department and established engineering processes

**Tari Labs / Technical Lead**

May 2022 - Feb 2025, Remote

- **Spearheaded architecture and led a team of engineers** to build a cross-chain Web3 data aggregation platform, designing a highly scalable microservices backend using **NestJS** and **PostgreSQL** as the primary source of truth.
- **Architected a real-time, event-driven system** to analyze cross-chain data, scaling to process millions of requests and events per minute by leveraging **Redis Streams** for low-latency, exactly-once task execution.
- **Optimized complex data retrieval** by implementing **TimescaleDB** for time-series data and building optimized **Elasticsearch** indexes to serve complex queries with custom rankings.
- **Championed infrastructure reliability and engineering excellence** by deploying a **Kubernetes** cluster via **FluxCD** (GitOps) and establishing deep observability with **OpenTelemetry**, **Prometheus**, and **Grafana**, all while maintaining a rigorous 97% test coverage rate.

**QMedic / Senior Developer**

Dec 2018 - July 2019, Remote

- **Engineered robust internal telemetry and analytics infrastructure** using **Node.js** to capture and process data generated by proprietary wearable medical IoT devices.
- **Designed a scalable data layer** utilizing **DynamoDB** to efficiently store, manage, and query incoming analytics data from connected wearables.
- **Developed dynamic full-stack visualization dashboards** with **React**, successfully translating complex raw IoT telemetry into actionable insights for company stakeholders.

### **Dreidev/ Senior Full Stack Developer**

Jan 2017 - Nov 2018, Remote

Full stack developer for a software house. Continuously delivered webapps with a focus on usability, seamless and intuitive UX. First fully remote role, allowed me to attain the experience and skills to self manage and continuously deliver value in a remote workplace.

### **Paymob/ Software Engineer**

Jan 2016 - Dec 2016, Cairo, Egypt

Gained experience working in the fintech industry gained ability to understand and translate regulatory requirements to project specifications. Worked on highly scalable backends for mobile wallets.

### **Eventtus / Software Engineer**

Sep 2015 - Jan 2016, Cairo, Egypt

Event organization and tracking platform. Modernized an aging codebase. From PHP to Ruby on Rails. Did so incrementally with piecewise modernization and gradual rollout of services.

## **Education**

### **German University in Cairo / BSc. Computer Science**

2016, Cairo, Egypt

Also participated in google summer of code during the summer of 2014. Working on SPDX python tooling. During my time at the university I also served as a junior teaching assistant in the Software Engineering and introduction to computer science courses.

## **Certifications**

### **Google Project Management Certification**

<https://coursera.org/share/a57f0a8091446714241be607c548701d>

Comprehensive specialization for project management and how it's done at google. Not only qualifies me to work as a project manager but helps make me a much better technical lead.

### **Postgresql for everyone certification**

<https://coursera.org/share/dc3ed42f48dbfb3a7ad0f375fd82fc01>

Postgresql techniques and inner workings. Most of the time just using the ORM for everything doesn't cut it.

### **AWS fundamentals Certification**

<https://coursera.org/share/c76ba6e13718a31c7262fed9601508d1>

**Languages:**

Arabic: Native

English: Fluent

Português: Intermediate