Ahmed Ismail

Technical Lead

Ahmed H. Ismail

Porto, Portugal

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Who

- **Senior Software Engineer & Technical Lead** with **10+ years of experience** in full stack development, system architecture and scalable data platforms
- Expertise in **event-driven architectures, microservices and large scale data processing**
- Proven ability to **design, develop and scale distributed systems** handling **millions of requests per hour**
- Passionate about **open source contributions, mentoring engineers and building high performing, resilient systems.** I thrive on seeing my designs withstand real-world intense demands..
- Fluent in English and Arabic. Conversational in Portuguese.

Technical Skills

Programming Languages: C++, C, Javascript, Typescript, Python, Ruby, Prolog, Rust & Java.
Frameworks: Ruby on Rails, django, flask, sinatra, nodejs, Nextjs, React & Nestjs.
Tools & Services: Redis, memcached, nginx, Postgresql, MongoDB, DynamoDB, AWS lambda, TimescaleDB & docker.

Professional Experience

Refound / Software Engineering Manager

Feb 2025 - May 2025, Remote

Lead architect and team lead 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

Tari Labs / Technical Lead

May 2022 - Feb 2025, Remote

Lead architect and team lead on cross chain web3 data aggregation and analysis platform along with providing developer tooling and infrastructure for the rest of the company. We are proud to boast a 97% code coverage rate while scaling to millions of requests and events per hour. The system is designed as an event driven system analysing data in realtime across multiple chains.

QMedic / Senior Developer

Dec 2018 - July 2019, Remote

QMedic designs its own wearable medical devices, I worked as a full stack developer building internal telemetry and analytics infrastructure for the company. Collecting analytics from IoT devices and visualizing it for 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

Modernized an aging codebase.

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

Other Projects

Midas algo trader
Language: C++
Algorithmic trader using IBKR API for momentum exploit. Trades futures and high volatility stocks. https://github.com/a-h-i/midas

spdx parser
Language: Python
Python parser libraries for the SPDX format.
Done as part of GsoC 2014. https://github.com/ah450/sdpx-tools-python

Proteus
Language: C++
Speech recognition library generator based on pocketsphinx for multiple languages. https://github.com/ah450/proteus

Responder

Stack: Ruby + Sinatra

Auto deployment from github web hooks

https://github.com/ah450/responder

SIFT

Language: C++

https://github.com/ah450/SIFT

Scale Invariant Feature Transform implementation

AI2048

Language: Golang

https://github.com/muhammedabuali/AI2048 artificial intelligence
course project for the famous 2048 game

ObjectRecognizer

Language: Python

https://github.com/ah450/ObjectRecognizer

Naive Bayes classifier

Evaluator

Stack: Angularjs, Rails.

https://github.com/ah450/evaluator

Java submission runner and evaluator for GUC

Ngmedia

Stack: Angularjs.

https://github.com/ah450/ngmedia

Angular directive to remove elements based on media query match

Unification

Language: Python

https://github.com/ah450/unification

FOPL unification and CNF conversion

Whois

Language: C++

https://github.com/ah450/whois

A multithreaded basic whois commandline utility

Rootkit

Language: C

https://github.com/ah450/rootkit

Rootkit for linux kernel 3.x

TowersOfHanoi

Language: C++

https://github.com/ah450/Towers-of-Hanoi

Towers of Hanoi 3D

Cweather

https://github.com/ah450/cweather

cmd line weather tool