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Mohammed Ibrahim

Experience

Revealsite, remote USA — Senior software engineer (Devops, Backend, and AI)

Feb 2025 - Present

I am currently leading the backend team to implement a sass realtime voice based receptionist for dental offices across the US. I helped start the project, selecting the technologies, and growing it from zero to hero, having patients using it across the United States to schedule appointments and interact with their dental offices 24/7.

Syntheia.io, remote USA —software engineer [NLP & MLOPS] October 2022 - Feb 2025

Led the backend team in developing new ML microservices, increasing system performance by **30%** and reducing inference time by **20%**.

Improved ML algorithm accuracy by **15%** through microservice redesign, and boosted system stability by **25%**.

Introduced new coding practices, increasing **code coverage by 50%** and reducing query time from **2 seconds to 10 milliseconds**.

Key tasks: Load testing (JMeter), monitoring (Grafana), backend development (Python Flask/fastapi), deployment (Github CI/CD, docker, kubernetes) and frontend work (ReactJS).

Ogoul.com — *MLOPS Engineer* — *part time* Sep 2023 - present

In Ogoul I am leading the development and deployment of machine learning backends that include backends that serve LLMs, GEN-AI solutions, and all types of AI backends that require a lot of skills and experience to provide a good and smooth user experience to the users.

My work involves implementing, refactoring, monitoring and deploying ML backend services to different cloud providers and On-prem servers.

Udacity — *full stack tutor* — *part time* July 2021 - present

Organizing webinars to teach the concepts of Rest Api, Docker, Kubernetes, AWS deployment, Heroku, ReactJS, Flask, Test Driven Development, Design Patterns.

Cairo University, Egypt - Teaching Assistant Feb 2023 - October 2024

working as a teaching assistant for the machine intelligence and NLP classes at the department of computer engineering.

QBcall, Egypt —Backend Developer August 2022 - October 2022

built e2e testing, refactored, maintained code for microservices written in Nestjs.

Interviewed and onboarded new candidates.

Master Micro, Egypt —Software engineering intern August 2020 - October 2020

Led a team of 6 developers to refactor the codebase for the company's complex EDA software. This included planning modifications, distributing work, reviewing the developers' code.

Education

Cairo University— *Masters in Computer Engineering*

july 2017 - July 2022

I am currently pursuing my masters degree with focus on AI and its applications in industry.

Cairo University— *Bachelor of computer engineering*

july 2017 - July 2022

Graduated with a cumulative grade of distinction with honors

PROJECTS

PDF Chatbot September 2024 - Present

An RAG application for chatting with pdf files.

Syntheia Super Comparer September 2024 - Present

Designed the backend algorithms for multi-document comparison systems, that help lawyers in comparing legal contracts to find flaws, and summarize issues..

Syntheia Auto Summarizer September 2024 - Present

Designed a complete email app for summarizing large legal documents for lawyers.

Symphonia Backend March 2020 - July 2020

Developed with 3 other team members a backend for an app that mimics spotify. Our team was responsible for backend in a larger team that had 36 other developers.

Psionica March 2020 - July 2020

Led a team of 4 members to design and implement a system that enables people with quadriplegia to control their mobile phones, wheelchair by classifying their brain signals using machine learning techniques.

Udagram Microservices September 2022 - October 2022

refactored a monolith Node Js app into microservices and built a complete CI/CD pipeline using travis-ci, EKS, and nginx as an api-gateway to route api requests to different microservices, and deployed the app to AWS EKS.

SKILLS

Vibe Coding, Cursor, VSCode, airflow, langchain, Ollama, GPT4-o, Azure Open AI, Prompt Engineering, Python, Node.js, TypeScript, SQL, NoSQL, C++, Flask, FastAPI, Django, ORM, Docker, Kubernetes, AWS, GCP, Azure, GitHub Actions, Terraform, Travis-CI, Redis, Kafka, NGINX, API Gateways, Microservices, Redis-adapters, Scaling WebSockets, Grafana, JMeter, Lens, Machine Learning, Deep Learning, NLP, Milvus, GEN-AI, Ollama, Jira, DevOps, TDD, Pair Coding, Problem Solving, Web Scraping, Data Analysis, Linux, Bash, PowerShell, Wordpress, Entrepreneurship, Mentoring, English Fluency.