

Youssef Farag

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EDUCATION

Alexandria University

Bachelor of Science in Computing and Data Science

Alexandria, Egypt

Sep. 2021 – Jun. 2025

Information Technology Institute (ITI)

Summer Training in Web Development

Egypt

Summer 2024

EXPERIENCE

Full-Stack Developer

Jan. 2025 – Apr. 2025

Nedialo Outsourcing and Offshoring Consulting

Alexandria, Egypt

- Fixed and implemented front-end and back-end features for a real estate CRM system using Python (Django), MySQL, and Vanilla JavaScript.
- Built a full notification system, advanced filters for listings, SEO bug fixes, form validation, and user experience improvements.
- Managed VPS servers: monitored system health, deployed updates, and implemented security enhancements.
- Integrated third-party systems (e.g., Discord server integration for real-time activity logging and monitoring).
- Designed and developed new database models; wrote unit tests and integration tests for all new features.
- Developed admin dashboard visualizations with charts and analytics to track business metrics.
- Implemented spam detection tools for phone numbers within the CRM.

Full-Stack Developer (Independent Projects)

2021 – Present

- Designed and built full-stack web applications integrating AI pipelines and advanced backend systems.
- Implemented Retrieval-Augmented Generation (RAG) using large language models (LLMs) for a graduation project.
- Experience with various technologies including Python, Django, Node.js, React, PostgreSQL, MySQL, and Docker.

PROJECTS

Travel Track | *React, Leaflet, Node.js*

- Developed a full-stack web application to track and document travel locations and notes.
- Integrated interactive maps using Leaflet for real-time location visualization.
- Implemented core React features such as routing, state management, and component optimization.

FCDS Mentor (Graduation Project) | *FastAPI, React, Python, LangChain, OpenAI API, docker*

- Built an AI-powered web app using Retrieval-Augmented Generation (RAG) pipelines for student question-answering.
- Created FastAPI routes for document uploading, chunking, embedding, and prompt-based generation.
- Integrated vector search and LLMs to retrieve and generate context-aware answers based on student materials.

Taskify | *TypeScript, React, Node.js, Prisma, PostgreSQL, JWT, Docker*

- Designed and built a collaborative task management system with real-time updates and user authentication
- Developed a RESTful API backend using Node.js and Prisma ORM with PostgreSQL database.
- Implemented full CRUD operations

TECHNICAL SKILLS

Languages: Java, Python, C++, SQL (Postgres, MySql), JavaScript, TypeScript, HTML/CSS, R

Frameworks: React, Next.js, Node.js, FastAPI, Django, WordPress, Material-UI, Tailwind, Bootstrap

Developer Tools: Git, Docker, TravisCI, Google Cloud Platform, VS Code, Postman, Nginx

Libraries: pandas, NumPy, Matplotlib, LangChain, OpenAI APIs **Databases:** MySQL, PostgreSQL, MongoDB