EZZAT ESAM ELSAYED

Full-Stack Software Developer

EXPERIENCE

Software Developer - Full-time

VetSoft - Poultry Management Solutions

Mov 2024 - Present

Nasr City, Cairo

- Working on integrating with **ETA** (Egyptian Tax Authority) for invoice and receipt generation and reporting. Ensuring compliance with Egyptian tax regulations.
- Integrated with **ZATCA** (Zakat, Tax and Customs Authority, Saudi Arabia) by implementing secure authentication, generating XML invoices that adheres to the **UBL 2.1 standards**, and API reporting to ensure tax compliance.
- Added the generation of the Salary Information File (SIF) for the Qatari Wage Protection System, ensuring accurate wage reporting that's compliant with Qatari WPS regulations.
- Made a pipeline for publishing the company's product (ASP.NET, Angular, and SQL Server stack) as a multi-container application using **Docker**.
- Built an Al web service using FastAPI and integrated it with the existing ASP.NET stack.
- Deployed a chatbot user assistance system using LangChain and Langraph, providing real-time support.
- Developed **UI components** for the chatbot interface, enabling visualization and reporting capabilities.
- Integrated data analysis workflows by enabling secure and efficient interaction with the SQL Server database, allowing for "Talk with your database" functionalities.

PROJECTS

League of Legends Assistant - A Full-Stack Chatbot App Python, FastAPI, SQLAlchemy, React.js, React Router, TailwindCSS, Ant Design

- Engineered a **full-stack web application** for a League of Legends chatbot, incorporating features like **authentication**, chat history, and dynamic model selection using **FastAPI** and **SQLAIchemy**.
- Designed and implemented a robust backend architecture to support scalable **RAG pipelines**, utilizing **ChromaDB** for efficient data retrieval and integration with AI functionalities.
- Developed a responsive and user-friendly frontend using **React.js**, **React Router**, and **Ant Design**, styled with **TailwindCSS** for custom UI designs.

Egypt Homes, A Full-Stack Real Estate Platform

ASP.NET, EF Core, PostgreSQL, JWT Auth, Next.js, NextAuth, DaisyUI, TailwindCSS

- Built the **backend** with **ASP.NET** and **Entity Framework Core**, utilizing a remote **PostgreSQL** database and implementing secure **JWT authentication** with support for local and **OAuth2** (Google) sign-in.
- Enabled users to post property listings with details such as images, amenities, location, price, and area, along with search functionality featuring filters (location, price range, amenities) and paginated results.
- Added **bookmarking** features, allowing users to save listings for later and contact property owners via phone or email.
- Designed the user interface with **Next.js**, **NextAuth** for authentication, and styled components using **DaisyUI** for a modern, responsive experience.

Task Track, A Full-Stack Task Management Application ASP.NET, EF Core, JWT Auth, React.js, React router, TailwindCSS

- Designed and developed a **full-stack Task management application** that allows users to organize tasks, assign them to groups, and track progress.
- Built the backend using **ASP.NET**, used **JWT** authentication for API security and **Entity framework core** for CRUD operations.
- Built a responsive frontend using React.js with TailwindCSS styling.

Shaghalni, A Freelancing Platform

Python, Flask, SQLAlchemy, Jinja2, Bootstrap, PyTest, Docker, Azure Pipelines

- Built a full-stack freelancing platform with two user types (client & freelancer) and an admin panel, enabling users to **search**, **apply for jobs**, and **manage profiles**.
- Deployed the container as a **Docker** image and hosted on **Azure**.
- Configured the CI/CD pipeline with automated integration tests using **PyTest** and **Selenium** on code push and PRs.
- Configured automatic deployment using **Azure Pipelines**. Utilizing Docker container registry for image storage and GitHub for version control.
- Managed tasks and iterations using GitHub Projects, ensuring agile development and project tracking.

EDUCATION

BS. Communications and Information Engineering

Zewail City of Science and Technology

2019 - 2024

♀ Giza, Egypt

GPA: 3.61/4.00 (With Honors)

Coursework



Self-Learning

- Software Construction in Java (MIT Open Learning Library) Completed
- Clean Code by Robert C. Martin Completed
- Designing Data-Intensive Applications by Martin Kleppmann — In Progress

SKILLS

Core Skills



Programming Languages

Python		C#	TypeScript	JavaScript
Go Java				

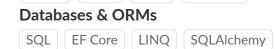
Web Technologies

ASP.NET Core FastAPI Flask Ang					
NextJS	ReactJS HTML CSS				
Deployement Tools					
Docker	Azure Devops & Pipelines				

JUnit

Testing

PyTest xUnit



MongoDB Firebase Drizzle ORM

BADGES AND AWARDS

Hacktrick 2024 - 1st Place Winner Dell Technologies

₩ 2024

New Cairo, Egypt

Selenium

- Competed as part of a 4-member team in Dell's 2024 hackathon and secured 1st place.
- Achieved the highest score among 70+ participating teams.
- Tackled challenges in machine learning, computer vision, encryption, and problem-solving.