

EZZAT ESAM ELSAYED

Full-Stack Software Developer

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github.com/EzzatEsam Tala, Menofia, Egypt (Willing to relocate)

EXPERIENCE

Software Developer - Full-time VetSoft - Poultry Management Solutions

- 📅 Nov 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 AI 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 **SQLAlchemy**.
- 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
- Software Engineering OOP & C++
Embedded Systems Operating Systems
Database Management Systems
Data Structures and Algorithms
Computer Networks Artificial Intelligence
Computer Architecture Compiler Design

- #### 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
- Web development Testing CI/CD
MVC OOP RESTful APIs Git Linux
- #### Programming Languages
- Python C# TypeScript JavaScript
Go Java
- #### Web Technologies
- ASP.NET Core FastAPI Flask Angular
NextJS ReactJS HTML CSS
- #### Deployment Tools
- Docker Azure Devops & Pipelines
- #### Testing
- PyTest xUnit JUnit Selenium
- #### Databases & ORMs
- SQL EF Core LINQ SQLAlchemy
MongoDB Firebase Drizzle ORM

BADGES AND AWARDS

Hacktrick 2024 - 1st Place Winner Dell Technologies

- 📅 2024 📍 New Cairo, Egypt
- 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**.