Ezzat Esam Elsayed

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🔗 my-portfolio-ezzat.vercel.app   in EzzatEsam   ○ EzzatEsam

Summary

Software engineer with an AI background. Experienced in developing web applications and full-stack solutions using Java, Python, and TypeScript with frameworks including Spring Boot, FastAPI, and Next.js.

Experience

Software Developer - Full-time   Nasr City, Cairo
VetSoft   *Nov 2024 - Present*

Developing and deploying new features and integrations to improve the company's product.

- Built and deployed an AI-powered chatbot using FastAPI, LangChain, LangGraph, and FAISS; integrated with existing systems to enable natural language queries on SQL Server.
- Created interactive chat UI components with Chart.js and Kendo UI for real-time data visualization.
- Extended the finance module by enabling e-invoicing in multiple regions by implementing integrations with ETA (Egypt) and ZATCA (Saudi Arabia).
- Added SIF generation support for Qatar's Wage Protection System (WPS) to the payroll module.
- Automated CI/CD workflows via GitHub Actions, streamlining release cycles.
- Containerized the ASP.NET, Angular, and SQL Server stack as a multi-container Docker application.

Education

Zewail City of Science and Technology   Giza, Egypt
BS. Communications and Information Engineering   *2019 - 2024*

- GPA: 3.61/4.00 (With Honors)
- **Coursework:** , Software Engineering, OOP & C++, Operating Systems, Database Management Systems, Data Structures and Algorithms, Computer Networks, Artificial Intelligence, Computer Architecture, Big Data Analysis

Self Study:

- Software Construction in Java & Advanced Software Construction in Java (MIT Open Learning Library)
- Clean Code by Robert C. Martin
- Head First Design Patterns by Eric Freeman

Skills

Core Skills: Web development, Testing, CI/CD (Docker, GitHub Actions, Azure Pipelines), MVC, OOP, RESTful APIs, Git, Linux

Programming Languages: Java, TypeScript, JavaScript, Python, Go

Web Technologies: Spring Boot, Angular, NextJS, ReactJS, FastAPI, HTML, CSS

Testing: JUnit, Selenium, PyTest, Postman

Databases & ORMs: SQL, JPQL, JPA/Hibernate, SQLAlchemy, MongoDB, Firebase

Projects

Egypt Homes, A Full-Stack Real Estate Platform   *GitHub* ↗

Spring Boot, Spring Security, Hibernate, PostgreSQL, JWT Auth, Next.js, NextAuth, DaisyUI, TailwindCSS

- Developed backend with Spring Boot, Spring Security, and Hibernate, connecting to a remote PostgreSQL database.
- Implemented secure JWT authentication with support for both local and OAuth2 (Google) sign-in.

- ○ Enabled users to post listings with images, amenities, location, price, and area details.
- ○ Created search functionality with filters (location, price range, amenities) and paginated results.
- ○ Added bookmarking to save listings and allowed contacting property owners by phone or email.
- ○ Designed the UI with Next.js and NextAuth, ensuring a responsive and modern experience.
- ○ Styled components with DaisyUI and TailwindCSS for consistent visual design.

Task Track, A Full-Stack Task Management Application   *GitHub* ☒

Spring Boot, Spring Security, JPA, Hibernate, JWT Auth, React.js, React Router, TailwindCSS
- ○ Designed and developed a full-stack task management application for organizing tasks and groups.
- ○ Built the backend using Spring Boot and Hibernate for efficient data operations.
- ○ Implemented JWT authentication to secure API endpoints and user data.
- ○ Developed a responsive frontend using React.js, React Router, and TailwindCSS.
- ○ Enabled users to track progress and manage tasks effectively within groups.

League of Legends Assistant, A RAG Chatbot Full-Stack App   *GitHub* ☒

Python, FastAPI, SQLAlchemy, Langchain, React.js, React Router, TailwindCSS, Ant Design
- ○ Engineered a full-stack League of Legends chatbot app using Python, FastAPI, and SQLAlchemy.
- ○ Integrated authentication, chat history, and model selection for enhanced interaction.
- ○ Designed the backend to support scalable RAG pipelines with ChromaDB for efficient data retrieval.
- ○ Used LangChain with Gemini completion and embedding models.
- ○ Developed a responsive frontend with React.js, React Router, and Ant Design.
- ○ Styled the user interface with TailwindCSS for a custom, user-friendly design.

Shaghalni, A Freelancing Platform   *GitHub* ☒

Python, Flask, SQLAlchemy, Jinja2, Bootstrap, PyTest, Docker, Azure Pipelines
- ○ Built a full-stack freelancing platform using Python, Flask, SQLAlchemy, Jinja2, and Bootstrap.
- ○ Supported two user roles (client & freelancer) and included an admin panel for management.
- ○ Deployed the application as a Docker image hosted on Azure for scalable performance.
- ○ Configured a CI/CD pipeline with automated tests using PyTest and Selenium on push/PR events.
- ○ Implemented automatic deployment with Azure Pipelines, integrating Docker registry for image storage.
- ○ Managed agile development and task tracking with GitHub Projects.

Badges and awards

Hacktrick 2024 - 1st Place Winner   *2024*
Dell Technologies   *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.