Youssef Alsaeed

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Education

Software Engineering, Faculty of Computers and Artificial Intelligence, Cairo University   2020 – present
Senior student, **3.6 GPA** (Excellent)

Professional Experience

Java Developer Intern, Link Development ⧉   07/2023 – 10/2023
During my Java Backend internship,   Cairo, Egypt
- I developed a **Spring Boot** component for receiving logs from clients and ensured log accuracy through validations before storing them.
- I was also responsible for integrations with **Kafka** and **ELK** stack for enhanced log management.
- I was responsible for providing security with **OAuth 2.0** and **keycloak** for **SSO**.
- I was responsible for containerizing the services using **docker**

Gen Ai Software Engineer Intern, ITIDA-SECC ⧉   08/2024 – 09/2024
- Developed software as a Gen AI Software Engineer to streamline test case generation from software requirements.   Cairo, Egypt
- Leveraged Generative AI capabilities using LLaMA 3.1 to automate the test case creation process.
- Built the backend using Spring Boot, ensuring robust and scalable architecture.
- Developed the frontend with Vue, providing an interactive and user-friendly interface.

Java Full-stack Intern, MD-Labs ⧉   08/2024 – present
- Responsible for developing Java full stack applications.
- Utilize Spring Boot for backend development, ensuring robust and scalable solutions.
- Implement React for frontend development, creating dynamic and responsive user interfaces.

Skills

Programming languages
C++ | C# | Java | Python

Testing
Unit tests (Junit) | Selenium | Debugging | Jmeter

Technologies
Apache Kafka | Elastic search | Logstash | Kibana | SonarQube | Swagger | Postman

Quality Control
Jira | Trello | ClickUp

Security
Keycloak | Red hat SSO | Spring Security

Backend Technologies
Spring Boot | Java EE | Rest Api | ORM | .NET

Concepts
OOP | Algorithms | Data structures | SOLID | Design patterns | Agile methodology | Problem-solving

Version Control
Git | Github

Database
MySQL | MS SQL Server

DevOps Tools
Docker | Podman | Kubernetes | OpenShift | Jenkins | Linux

Projects

GradesUp LMS (Graduation Project) ⧉

Grade: Received an **A+ (Excellent)** for this project.

Developed a comprehensive Learning Management System (LMS) for managing courses and content. Key features include:
- **Content Storage**: Utilizes Firebase for secure storage of course materials.
- **Real-Time Features**: Implements real-time announcements, assignments, comments, and notifications using WebSockets.
- **AI-Enhanced Assessments**: Incorporates proctored quizzes with face posture and recognition AI, auto-grading of essay quizzes, and quiz generation from PDF content using the LLaMA 3.1 AI model.
- **Technology Stack**: Built with Flask, Spring Boot, Firebase, Angular, and Docker.

Clinic Reservation System ⧉
The Clinic Reservation System is a **Node.js**, **MySQL**, and **Angular** application that caters to doctors and patients. It utilizes **Kafka** for event-driven messaging , is containerized with **Docker** for scalability, and deployed on **OpenShift** for robustness. This system streamlines clinic operations, enhancing efficiency and user experience.

Fawry System ⧉
Application similar to fawry to manage online payments, Utilizing **Spring Boot**, **Rest Api**.

Food Ordering Platform ⧉
Developed a food ordering platform with distinct functionalities tailored to the roles of restaurant owners, delivery personnel, and customers. Used **Java EE** for **persistence** and **security**, utilizing **Hibernate DB** for database management. Developed the platform's frontend using **JavaScript** and **HTML (JSP)**. Successfully deployed the application on **JBoss** server.

Learning Management System Microservices ⧉
Developed a microservices-based learning management system with a database-per-service pattern, leveraging **Spring Boot** and **Java EE** beans. Implemented a comprehensive frontend using **Vue.js**, enabling full functionality for admins, instructors, and students. Containerized all services and databases with **Docker** for seamless deployment.

E-learning-Proctor ⧉
This project is a demo application consisting of a Node.js Express backend and a Vue.js frontend. It provides admin and student functionalities where admins can create quizzes and students can view and take these quizzes. The frontend includes proctoring features using mobile detection and computer vision.

Checkers-Ai
Utilizing powerful algorithms like **minimax** and **alpha-beta pruning** to make 2 bots battle each other with different difficulty levels using **python**.

Library Management System ⧉
System to manage library users and books storage using MS SQL and WinForms in MS Visual Studio 2022

Orders Management System ⧉
This is an E-commerce API built with NestJS, Prisma, and PostgreSQL. The API allows for managing users, products, carts, orders, and applying coupons.

Courses

Red Hat OpenShift Developer I: Introduction to Containers with Podman 4.10	01/2024
Red Hat Application Development I: Programming In Java EE 7.0 (AD183)	05/2023
Red Hat System Administration (RH124)	12/2022

Activities

SCCI - TechSolve team member
Technical skills - Worked on coding functionality for Arduino with various sensors.
Soft skills - Ability to work independently and as part of a team, strong communication, and presentation skills.