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Education

Cairo University

BS in Computer Science

Sept 2020 – Jan 2025

- GPA: 3.01/4.0
- **Coursework:** OOP, Discrete Mathematics, Software Engineering, Operating Systems, Web, Data Structures, Algorithms, Database ,Computer Networks

Experience

Software Engineer

MasteryHub

Feb 2025 – May 2025

- Contributed to the development of **Wepray** a spiritual productivity and prayer collaboration app — using **Flutter** for the mobile frontend and **NestJS** for the backend.
- Built and maintained a React-based admin dashboard to manage user activity, prayer submissions, and analytics.
- Implemented RESTful APIs with authentication and role-based access control, integrating **PostgreSQL** for persistent data storage.
- Created a Dockerized environment using **Dockerfile** and **docker-compose** to streamline development and deployment.
- Participated in Agile ceremonies and tracked progress using **Jira tickets**, ensuring timely delivery of features and bug fixes.
- Tools Used: Flutter, NestJS, React, PostgreSQL, Docker, Docker Compose, Git, Jira

Software Engineer Intern

Orange

Aug 2024 – Oct 2024

- Worked with SQL databases (MySQL) and NoSQL databases (MongoDB), focusing on efficient querying, data modeling, and optimization.
- Developed and maintained Java Spring Boot applications, implementing core design patterns for clean, scalable code.
- Participated in testing processes, including unit, integration, and system testing, ensuring high code quality and reliability and gained hands-on experience in secure coding practices, addressing potential vulnerabilities in web applications.
- Collaborated with cross-functional teams to develop and deploy software solutions.

Projects

WEBSERVICE APPLICATION

- Built a RESTful web service using Java Spring Boot to handle mobile recharge, internet services, and money transfers with secure authentication and role-based access.
- Designed scalable architecture with layered components, applied MVC and Singleton design patterns, and ensured code modularity and testability.
- Integrated database operations with MySQL, implemented validation, logging, and exception handling.
- Ensured security through input validation and basic authentication mechanisms; conducted testing using Postman and JUnit.
- Tools Used: Java, Spring Boot, MySQL, Postman, JUnit, Git, REST APIs

NEWS APP

- Built a full-stack news app backend with Node.js and MongoDB and a responsive Flutter frontend, sup-

porting user registration, login, article parsing, and text-to-speech features.

- Added personalized news suggestions based on user search history and enabled saving, liking, and commenting on articles.
- Integrated a Python-based machine learning model to automatically detect and flag offensive comments in real-time.
- Applied REST API design, followed MVC structure, and containerized the app using Docker for easier deployment.
- Tools Used: Node.js, Express.js, MongoDB, Flutter, Python, Docker, REST APIs, Git

Task Management App

- Developed a task management app using Spring Boot for the backend and React for the frontend, enabling users to create, update, and track tasks with authentication and role-based access control.
- Integrated MongoDB for efficient data storage and used Docker to containerize the application, enabling easy deployment and environment consistency.
- Built RESTful APIs and managed frontend state with React Context. Designed a responsive UI using Material UI.
- Tools Used: Spring Boot, React, MongoDB, Docker, REST APIs, Material UI, Git

Skills

Java (Spring Boot), Node.js, Express.js, Python, C++, C, C#, JavaScript, TypeScript, HTML, CSS, React, Bootstrap, Material UI, Flutter, REST APIs, MongoDB, MySQL, SQL, Git, Docker, Jira, Agile/Scrum, Design Patterns (MVC, Singleton), Postman, JUnit, Object-Oriented Programming, Functional Programming, API Development, Responsive UI Design, Web Security Basics, Data Structures Algorithms, Problem Solving, Team Collaboration, Communication Skills, Time Management, Creativity, Linux Basics, Software Engineering Principles

Achievements

Ranked 8th in the 2023 ECPC Qualifications Collegiate Programming Contest and Qualified for ECPC Finalist.

Participated in 2023 ECPC (Egyptian Collegiate Programming Contest) Finalist.

Ranked 29th in the 2022 ECPC Qualifications Collegiate Programming Contest.