Mustafa Omran

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Education

German University in Cairo (GUC), Cairo, Egypt   **Sep 2018 – Jul 2023**
Bachelor of Science in Computer Science and Engineering
GPA: 1.5 (German scale), A-

Experience

3Pillars Companies   **Cairo, Egypt**
Full-Stack Engineer   *Feb 2025 – Present*
- Contributing to a critical system for the Saudi Ministry of Justice for managing lawyers and trainers.
- Learned Vue.js in one week to implement frontend functionalities and enhance features.
- Connected frontend interfaces to government APIs for applicant data validation using National ID.

bld.ai   **Remote (USA)**
Software Engineer   *Aug 2022 – Mar 2023*
- Developed and deployed a Chrome extension using JavaScript, enabling screen recording with audio and camera support. Integrated the extension with a backend built using Node.js and Django.
- Designed and built a React-based web interface for video playback, improving user accessibility and enhancing the overall user experience.
- Used Django for backend processes and Node.js for efficient video streaming.
- Quickly learned Chrome extension development and seamlessly integrated it into the existing workflow, delivering a fully functional solution within a short timeframe.

Projects

Smart Portfolio   **Oct 2024**
- Built with Next.js and MongoDB, featuring projects, skills, and experiences with light and dark themes.
- Added smart chat powered by Gemini API for interactive Q&A about my work.
- Built during my military service, demonstrating time management and dedication. Live Website

Infinite Wall of Posts   **Apr 2024**
- Developed an infinite scrolling wall of posts using Next.js.
- Implemented a feature to display random photos, demonstrating proficiency with client-side rendering and API integration. Live Website

Medium Replica Microservices Architecture   **Jan 2023 – Jun 2023**
- Developed a microservices-based application replicating Medium, consisting of Users App, Product App, Media App, Service Registry, and API Gateway.
- Designed the Controller App for dynamic command execution and integrated Apache Kafka for message communication between services.

Database-Engine   **Apr 2021 – Jun 2021**
- Designed and implemented a Java-based Database Engine supporting basic SQL operations (CRUD).
- Added multi-dimensional grid indexing and SQL parsing for enhanced performance and user experience.

Achievements

Competitive problem solver   **2022**
- Solved more than 500 problems in different competitive programming sites (codeforces, leetcode, etc...).

Mentor-ICPC GUC Community   **2020**
- Mentored students in data structures and algorithms for ICPC preparation.

GUC Collegiate Programming Contest   **2019**
- Ranked 10th among GUC teams in the Collegiate Programming Contest in my first year.

Skills

Technical Skills: Java, Python, C++, JavaScript, SQL, React, Vue.js, .NET Core, Node.js, Next.js
MongoDB, PostgreSQL, HTML, CSS, SASS, Bootstrap, Tailwind CSS

Tools & Technologies: Git, Burp Suite, Docker, Agile

Soft Skills: Problem Solving, Team Collaboration, Time Management, Communication, Leadership, Conflict Resolution, Critical Thinking, Adaptability, Multitasking