

AHMED MOHAMED

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Software Engineer

Summary

Motivated Backend Developer with a strong foundation in Java, Spring Boot, and SQL. Currently working as a reviewer at Datacurve's Shipd platform, contributing to the quality of coding data used in training LLMs. Proven experience in backend development, and delivering scalable solutions. Seeking opportunities in software development teams globally.

Education

Menoufia University, Faculty of Computers & Information **2021 – Present**
Bachelor of Science in Computer Science, GPA: 3.16/4.0 Menoufia, Egypt
• **Relevant Coursework:** Data Structures, Algorithms, Database Management, OOP, Software Engineering, Web Development

Work Experience

Shipd by Datacurve (YC W24) [✉](#) **Oct 2024 – Present**
Reviewer (Contract) USA — Remote
• Reviewed coding project submissions in multiple programming languages, ensuring projects were appropriately complex, safe, and aligned with real-world software engineering practices.
• Analyzed user-reported tasks and problem descriptions for clarity, complexity, and feasibility to maintain the quality of coding challenges.
• Evaluated pull requests for correctness, adherence to requested features or bug fixes, and overall code quality.
• Ensured all contributions met platform standards, producing high-quality datasets used to train large language models.

Projects

Twitter Clone - Backend Development (Team Project) [✉](#) **Java, Spring Framework, Spring Boot**
• Integrated PostgreSQL for efficient management of user data and interactions, ensuring stable and secure data handling in a scalable backend architecture.
• Implemented RESTful APIs using Spring Boot to enable core functionalities such as account management, tweet operations, and social interactions.
• Implemented user-centric backend features, including following/followers systems, tweeting, likes, comments, and bookmarks, delivering seamless user experiences.
• Applied JWT and Spring Security for robust endpoint security, ensuring data protection and secure user authentication.

Codeforces Discord Bot [✉](#) **Java, JDA**
• Designed and built a Discord bot leveraging the Codeforces API, enabling real-time access to contest information, user standings, and problem statistics.
• Incorporated Redis for API response caching, optimizing performance by reducing redundancies and ensuring quick data retrieval.
• Implemented features that allow users to retrieve personalized data, such as problem rating comparisons and contest tournaments, to enhance Codeforces engagement.
• Streamlined deployment processes using Docker to manage both the bot and Redis server, ensuring a scalable and contained development environment.

EGP Exchange Rates - Telegram Bot [✉](#) **JavaScript**
• Developed a Telegram bot using JavaScript and Grammy to deliver real-time bank, black market exchange rates, and gold prices, offering critical financial insights.
• Integrated web scraping functionalities using Cheerio to reliably extract data from various financial websites, ensuring accurate information updates.
• Implemented robust error-handling mechanisms and interactive user menus, designed for seamless experiences even amid data source unavailability.
• Deployed the bot using Cloudflare Workers, taking advantage of its serverless capabilities to improve scalability and reduce latency.

Shell Scripts: Automate Your Tasks with Shell [✉](#) **Shell/Bash**
• Authored shell scripts for automating file manipulation tasks across multiple types, including PDFs, audio, video, and images.
• Integrated scripts into the Nautilus file manager using Zenity for graphical user interfaces, enabling ease of access and execution for end-users.
• Streamlined repetitive activities such as file merging, cutting, and speeding up operations with a user-friendly execution pipeline.
• Automated complex workflows, enhancing productivity by reducing manual intervention.

Certifications

Developer: Cegedim Hackathon [✉](#) **2023**
Cegedim Egypt
ICPC Egyptian Qualifications — The 31st Position [✉](#) **2023**
ICPC

Technical Skills

Programming Languages: Java, Python, C++, JavaScript, SQL, Shell/Bash

Frameworks & Libraries: Spring Boot, Spring Framework, Hibernate, Spring Security, JUnit, Mockito

Databases & Caching: PostgreSQL, MySQL, SQLite, Redis

Tools & Platforms: Git, Docker, Linux, IntelliJ IDEA, Maven, Gradle, Postman

Web & Other Technologies: HTML, CSS, RESTful APIs

Volunteering & Leadership

ICPC University Club **Jan 2022 – Present**
Development Team Member Menoufia University
• Led and conducted live instructional sessions on data structures, algorithms, and programming concepts to prepare students for ICPC competitions, enhancing their technical and problem-solving skills.
• Authored and contributed a competitive programming problem used in the ECPC 2023 Qualifications, impacting over 200 participating teams and showcasing innovative problem design.
• Mentored university students to build a strong foundation in competitive programming and fostered their readiness for high-pressure algorithmic competitions.