Amr Halahla

Computer Engineering Student

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Professional Summary

A motivated Computer Engineering graduate with a strong focus on backend development and microservices architecture. Skilled in building scalable systems using Java Spring Boot, Kafka, Docker, and various databases. Experienced in programming, problem-solving, and creating innovative solutions. Eager to contribute my skills to dynamic teams and work on impactful projects.

Education

B.Sc. in Computer Engineering *Birzeit University* **Birzeit, Palestine** *2020-2025 (expected)*
Relevant Courses: Database Management Systems, AI, Operating Systems, Linux Lab, Computer Architecture, Software Engineering, Computer Vision, Real-Time Systems.
Academic Achievements: Honor List (3 times); General GPA: 85.4; Major GPA: 84.8.

Experience

Backend Development Internship: Exalt Technologies Ltd. July 2024 – September 2024

- Developed and optimized RESTful APIs using Java Spring Boot.
- Worked with microservices architecture, leveraging Kafka and Docker for scalability.

Projects

SpringMicroHub: GitHub Link

- Built a scalable microservices ecosystem for user management, file storage, and notifications using Spring Boot, Kafka, Docker, PostgreSQL, Eureka, and Spring Cloud Gateway, with JWT-based authentication.

Backend Mini Project: GitHub Link

- Developed a microservices-based backend project with Spring Boot, utilizing Kafka, MongoDB, MySQL, Docker, API versioning, Eureka for service discovery, and a centralized config server.

AI Magnetic Cave Game: GitHub Link

- A game incorporating the minimax AI algorithm to develop a bot capable of playing the "magnetic cave game" as outlined in the project documentation.

Real-Time Wheat Distribution Simulation: GitHub Link

- Developed a multi-processing application simulating wheat flour distribution in a real-time environment using IPC techniques (message queues, semaphores, shared memory).

RISC-Multicycle Processor: GitHub Link

- Verilog-based Multi-Cycle RISC Processor handling RISC instructions through five pipeline stages.

Skills

- **Languages:** C, C++, Python, Java, JavaScript, Shell scripting, Verilog HDL, HTML, CSS
- **Frameworks:** Java Spring Boot
- **Technologies:** Microservices Architecture, Kafka, Docker, MongoDB, MySQL, PostgreSQL, OAuth, JWT, Eureka
- **Software:** Git, JetBrains tools, Postman, VSCode, GitHub, Jira, Slack, WSL

Languages

English: Upper-Intermediate (B2), Arabic: Native