

Hamza T. Belaih

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SUMMARY

A Computer Science student with strong development skills in several programming languages, Linux/Windows systems, and many debugging tools & IDEs. Confident with shell commands and system calls, with foundational knowledge in web development over React.js. Passionate about building efficient, reliable software from the ground up. In search of an internship or entry-level position to apply my skills and gain practical experience through real-world projects.

PROJECTS

Minishell – Custom Shell in C with Syscalls & Process Control:

42 amman

- Designed and developed a UNIX-based shell in C that closely replicates essential features of Bash using low-level system calls.
- Implemented command parsing with support for quoting, variable expansion, Here Document, and syntax validation.
- Managed the execution of both built-in and external commands, including process creation, file descriptor management, piping, redirection, and interactive signal handling to ensure a smooth user experience.

Dahab Hackathon Project – Full-stack Web App

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- Developed a scalable web platform utilizing React (TypeScript), Node.js, MongoDB, and a Microservices architecture, with deployment managed through Makefiles.
- Led the frontend development using React and TypeScript, creating responsive UI/UX components and managing API integrations. Additionally, I collaborated on backend design with Node.js and MongoDB.

Point of Sale System – JavaFX, MySQL (phpMyAdmin)

ASU

- Collaborated on developing a desktop-based Point of Sale (PoS) system using JavaFX for the GUI and MySQL (via phpMyAdmin) for the database.
 - Implemented features such as inventory tracking, billing, and user authentication.
 - Contributed to both frontend and backend development, focusing on creating a user-friendly interface and ensuring stable data handling.
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EDUCATION

Diploma in Software Engineering

Aug 2024 - Present

42 Amman, Jordan

Bachelor's in Computer Science.

OCT 2023 - Present

Applied Science University (ASU)

Volunteering

- Arab Future Programmers Competition "AFP" – Volunteer Organizer
- DDN Educational Initiative – Volunteer Mentor & Organizer

Achievements

- Achieved First Place in the UI/UX Design Contest at Applied Science Private University.
- Secured First Place in the Hour of Code Programming Competition at Applied Science Private University.
- Earned Second Place in the Dahab Hackathon (hosted by AWRAQ Company) at 42 Amman.
- Won Third Place in the Junior Competitive Programming Contest (JCPC) at Applied Science Private University.

SKILLS

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|---------------|-----------|------------------|-------------------|----------------------|
| ● C/C++ | ● Linux | ● Valgrind | ● Data Structures | ● Team Collaboration |
| ● Java/JavaFX | ● Windows | ● GDB | ● OOP | ● Time Management |
| ● React | ● MacOS | ● MakeFiles | ● MongoDB | ● Adaptability |
| ● HTML/CSS/Js | ● Git | ● MultiThreading | ● DBMS | ● Figma/Canva |

LANGUAGES

- Proficient in Arabic (Native Speaker)
- Advanced Proficiency in English