

Essam Khader

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Summary

Software engineer (B.Sc. Computer Science) with SDE internship experience at Amazon. 2x ICPC bronze medalist and 2x ICPC regional finalist (2024, 2026), strong in algorithms, problem solving, and full-stack development.

Education

B.Sc. Computer Science

Princess Sumaya University for Technology
GPA: **3.37/4.0**

Sept 2022 - Aug 2026

Experience

ACM Instructor

Feb 2026 - Aug 2026

- Trained **50+** students in competitive programming through weekly workshops, authoring custom problem sets to prepare university teams for regional **ICPC** contests.

Software Development Engineer Intern Amazon

Jul 2025 - Jan 2026

- Collaborated with a team of engineers to build a Size System Selector that lets MENA shoppers switch shoe sizes between **EU**, **US**, and **UK** on product pages, aimed at lifting conversion and reducing returns.
- Built the brand normalization and size conversion logic, from matching and validating brand names to applying brand and gender specific conversion rules.
- Implemented the selector's mobile UI with **RTL/LTR** support and multiple **A/B** treatment variants. Defined and instrumented the experiment's success metrics and monitoring dashboards.
- Co-authored the root-cause analysis for a customer-facing **SEV-2** outage, defining preventive action items approved in bar-raiser review. Authored testing documentation for the team.

Structured Programming And Calculus Tutor

Sept 2023 - Present

- Tutored **200+** students in foundational **C/C++** and **Calculus**, adapting teaching strategies to close learning gaps and improve test scores.

Projects

Graduation Project - Permute

- Built a quiz platform for algorithms courses where each student gets a unique instance of every question, produced by a modular generator, solver, and grader engine from instructor authored templates.
- Developed instructor-facing analytics that aggregate student performance across quizzes, complemented by a student gradebook for tracking individual progress throughout the course.
- Implemented graph question generators and solvers, along with a SymPy engine that classifies asymptotic relationships between generated functions.

3es Academy

- Built a course hub used by **1200+** students, combining structured modules, concept breakdowns, and interactive problem sets. (Link: <https://3es-academy.pages.dev>).

Achievements

ICPC Jordan Collegiate Programming Contest (JCPC) - Bronze Medalist Ranked 9th between 91 teams	<i>Sep 2026</i>
International Collegiate Programming Contest (ICPC) Regional Finalist Qualified to Africa and Arab Collegiate Programming Championship (ACPC)	<i>2024, 2026</i>
ICPC Amman Collegiate Programming Contest (ACPC) - Bronze Medalist Ranked 7th between 65 teams	<i>Jul 2025</i>

Languages and Skills

Technical Skills: C, C++, JavaScript, TypeScript, React, HTML, CSS, SQL, PostgreSQL, Linux, Unit Testing, Jest, Git and Github.

Languages: English, Arabic.