

Ahmad Kassem

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Education

Lebanese University, Faculty of Science Branch 3 – BS in Computer Science

Expected Aug 2026

Relevant Coursework: Data Structures, Algorithms, Object-Oriented Programming, Operating Systems, Database Management, Software Engineering, Networking, Cybersecurity, Artificial Intelligence, Full-Stack Web development.

Skills

Languages: Python, Java, C/C++, C#, JavaScript, PHP, SQL.

Frameworks & Libraries: React, Node.js, Express.js, .NET.

Databases: Oracle 12c, SQLite, MySQL.

Cloud & DevOps: AWS, Docker, Git/GitHub, Virtualization.

AI Integration: Anthropic API, Gemini API, Microsoft Azure AI.

Networking & Security: Identity & Access Management (RBAC), TCP/IP, Routing.

IT & Systems Administration: Windows/Linux Administration, Hardware & Software Diagnostics, Advanced Troubleshooting.

Projects

Bella Vista — Restaurant Management System | Node.js, Oracle 12c, JavaScript

- Engineered a full-stack web platform driven by a Node.js/Express.js REST API to streamline core business operations, reducing simulated order processing latency by 40%.
- Architected a 3NF-normalized Oracle 12c database (12+ relational tables) with custom Role-Based Access Control (RBAC), ensuring strict data segregation across 3 distinct user tiers (Admin, Staff, Customer).

Restaurant Application | Java, Android SDK, SQLite

- Developed a native Android application utilizing MVVM architecture, ensuring a responsive user interface that maintained a smooth 60 FPS rendering performance during heavy list scrolling.
- Engineered a modular, swappable data layer with SQLite and in-memory caching, decreasing average data retrieval times by 60% for frequently accessed restaurant profiles.

SysGuard — Linux Process Watchdog | C, POSIX API, Linux

- Built a system process supervisor in C using the POSIX API, achieving a 95% automated recovery rate for crashed background services within 3 seconds of failure detection.
- Implemented non-blocking (IPC) via Named Pipes, enabling the live administration module to handle up to 50 concurrent commands without thread starvation.

Students Management Portal | PHP, MySQL, MVC Architecture

- Built an MVC-compliant dynamic web application utilizing PHP and MySQL, digitizing records for over 500 simulated student profiles and reducing manual workflow steps by 50%.
- Hardened backend database interactions against SQL injection vulnerabilities by universally implementing secure PDO prepared statements, achieving 100% compliance with OWASP database security standards.

Experience

Academic Tutor Freelance, Lebanon 2021 – Present

- Delivered 200+ hours of customized 1-on-1 and small group tutoring in core Computer Science concepts (OOP, Data Structures) and the Lebanese Baccalaureate curriculum.
- Designed tailored study plans and practical coding exercises for 20+ students, contributing to an estimated 25% average grade improvement and a 100% pass rate on critical national and university finals.

IT Support Technician, Independent Tech Repair, Lebanon 2023 – Present

- Diagnosed and resolved 150+ software and hardware issues across Windows and mobile platforms, achieving a 95% first-time fix rate for system crashes, driver conflicts, and malware infections.
- Assembled 20+ custom high-performance desktop PCs and executed routine hardware upgrades (e.g., SSDs, RAM), improving average system performance and boot times by up to 60%.

Computer Science Student Delegate, Lebanese University, Faculty of Science Branch 3 , Lebanon 2024 –Present

- Represented a cohort of 300+ Computer Science students, acting as the primary faculty liaison to successfully advocate for student needs and resolve over 30 academic or scheduling conflicts per semester.
- Spearheaded the planning and execution of 5+ university-wide technical workshops and academic initiatives, drawing an average attendance of 80+ students and significantly boosting departmental engagement.