

# Mohammad M. Kassem

Beirut, Lebanon | [mohammad15kassem@gmail.com](mailto:mohammad15kassem@gmail.com) | +961 76 704 944 | LinkedIn

## Professional Summary

---

Highly analytical aspiring Software Engineer with hands-on experience in full-stack development (React, Node.js, SQL & MongoDB) and data management. Proven ability to deliver reliable, high-quality systems, demonstrated through leading technical coaching, project execution, and a strong focus on quality assurance and technical problem-solving.

## Education

---

**American University of Beirut (AUB)** – B.S. in Computer Science August 2023 – May 2026 | Beirut, Lebanon

- Recipient of the HES University Scholarship Program (USP) covering full tuition fees.

## Experience

---

**Teaching Assistant (Work-Study Program)** – AUB Sep 2025 – Present | Beirut, Lebanon

- Assist in conducting and leading university lab sessions focused on Excel-based business analytics, supporting students in applying technical concepts to real problems.
- Guide students by helping them solve lab assignments efficiently.

**Computer Science Tutor – Our Easy Game Tutoring LLC (OEG)** June 2025 – Present | Remote

- Mentored and coached Computer Science students through challenging technical material, specializing in bridging the gap between theoretical knowledge and practical application for strong academic results.

**Data Management Intern – Beit Atfal Assomoud** Jun 2024 – Aug 2024 | Sour, Lebanon

- Recorded and managed the organization data, including students details and social workers tracking.
- Ensured accuracy and consistency in students records within the organization's system.

## Projects

---

**CivicConnect** – React.js, Node.js/Express, MongoDB, Mongoose Fall 2024 | FYP

- Engineered and deployed a full-stack, three-tier web platform to centralize volunteer opportunities for NGOs, replacing reliance on social media and streamlining engagement for hundreds of community members.
- Designed a robust, multi-user system with Role-Based Access Control (RBAC) for Admin, NGO, and Volunteer roles, managing user permissions, content moderation, and application tracking

**Brain Tumor Detection** – Python Fall 2025 | Team Project

- Developed an image segmentation pipeline for Brain Tumor Detection using Convolutional Neural Networks (CNNs), primarily the UNet architecture..

**HealHub** – MySQL Spring 2025 | Team Project

- Designed and implemented a structured, comprehensive & normalized Hospital Management Database System using MySQL.

**Battleship Game** – C Fall 2023 | Team Project

- Developed a strategy-based command-line Battleship Game featuring human player and AI interactions.
- Emphasized algorithmic design for the AI opponent, focusing on optimizing turn efficiency and search strategy within the C environment.

## Leadership & Activities

---

- **AUB Palestinian Cultural Club (PCC):** Managed the club finances and budget for extensive activities, strengthening skills in financial management, large-scale event organization, and inter-club communication.
- **HES Scholar :** Trainings on job readiness, entrepreneurship, communication, public speaking, and stress management.
- **Community Engagement:** Volunteered with Beit Atfal Assomoud and HEAVEN, supporting children and patients.

## Skills

---

- **Testing & QA:** Test Case Design & Execution, Skwid, Cypress, Postman, GitHub Actions (CI/CD), Agile/Scrum
- **Languages & Frameworks:** C, C++, Python, Java, JavaScript, React, Node.js
- **Databases & Tools:** MongoDB, MySQL, Git, Excel, Microsoft Office
- **Soft Skills:** Communication, teamwork, leadership, adaptability, multitasking, time management.