

Mohammad M. Kassem

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Profile

Full-stack developer and Computer Science graduate from the American University of Beirut (full scholarship). Experienced in building responsive web applications using React, Node.js/Express, TypeScript, Python, and MongoDB. Developed REST APIs, authentication systems, and database-driven features across internships and academic projects while collaborating in Agile teams from development through deployment.

Education

American University of Beirut (AUB) — B.S. in Computer Science May 2026 | Beirut, Lebanon
• Full-tuition scholarship through the HES University Scholarship Program (USP).

Experience

Tech Generalist Intern – Siira World Jun 2026 – Aug 2026 | Beirut, Lebanon

- Supporting the Head of Product across product planning, technical requirements, and feature delivery.
- Bridging engineering and product teams by translating technical constraints into actionable product decisions.
- Contributing to roadmap prioritization, user story writing, and product documentation.

Full Stack Engineer Trainee – The Digital Hub (UNRWA) May 2026 – Jun 2026 | Remote

- Built full-stack web apps with React, Node.js/Express, Flask, and Django.
- Developed REST APIs, authentication systems, and database integrations through weekly projects.
- Collaborated remotely in Agile workflows while maintaining responsive and accessible interfaces.

Backend Engineer Intern – Tawasoul Apr 2026 – Jun 2026 | Remote

- Built and tested REST API endpoints using TypeScript and Node.js.
- Refactored legacy backend logic into modular TypeScript components.
- Improved performance and SEO using Astro's islands architecture and static site generation.

Computer Science Tutor – OEG Jun 2025 – Apr 2026 | Remote

- Tutored students in programming, debugging, and problem-solving across core CS subjects.
- Guided students through academic and personal projects using Java, Node.js, and React.

Projects

CivicConnect – React, Node.js, Express, MongoDB (FYP) GitHub | 2026

- Built a full-stack platform centralizing volunteer opportunities for community members.
- Developed the React front end and Node.js/Express REST APIs backed by MongoDB.
- Implemented authentication and role-based access for Admin, NGO, and Volunteer users.

MoodakLyom – Kotlin, Python GitHub | 2026

- Built a native Android mood-journaling app with voice entries using Vosk and Whisper.
- Developed a Python backend handling speech processing and application logic.

Brain Tumor Detection (U-Net) – Python 2025

- Developed a U-Net image-segmentation pipeline for brain tumor detection on medical scans.

Leadership & Activities

- Completed HES training in leadership, communication, public speaking, and entrepreneurship.
- TOT – Presentation & Training Skills in Education Technology (EdTech Syndicate, Lebanon).
- Co-designed *SheREADs: Recovery through Emotion, Awareness & Dialogue*, a psychosocial support initiative using bibliotherapy and storytelling to support orphan girls in South Lebanon affected by conflict.
- Volunteered in community and education initiatives supporting children and patients.

Skills

- **Languages:** JavaScript, TypeScript, Python, Java, C/C++
- **Frontend:** React, HTML, CSS, Astro, Responsive Design
- **Backend:** Node.js, Express.js, Flask, Django, REST APIs, Authentication
- **AI & Data:** LLMs, Machine Learning, Data Science
- **Databases & Tools:** MongoDB, MySQL, Git, GitHub, Postman, VS Code, CI/CD
- **Practices:** Agile/Scrum, API Integration, Debugging, UI/UX, Accessibility