

Layal Ghacham

Tyre Lebanon, +961 71798145, layalghacham@gmail.com

<https://www.linkedin.com/in/layal-ghacham-8619a9260/>

SUMMARY:

Computer Science graduate and Master's student specializing in Data Science with experience in software development, machine learning, and mathematics tutoring. Passionate about teaching, problem-solving, and building intelligent systems using modern technologies and AI tools. Skilled in full-stack development, data analysis, and communicating technical concepts clearly to students and teams.

EDUCATION:

American University of Science and Technology (AUST) — *ABET Accredited*

Master of Science in Computer Science – Data Science Concentration

October 2025 – Present

Relevant Coursework:

- Machine Learning
- Data Mining
- Parallel Processing
- AI Agents
- IOT

Bachelor of Science in Computer Science

October 2022 – June 2025

Cumulative GPA: **3.96 / 4.0**

EXPERIENCE:

Remote Math Tutor — Mathnasium Learning Center (USA)

October 2024 – Present

- Tutor students from **elementary to high school levels** in mathematics.
- Support students in developing **problem-solving skills, conceptual understanding, and test preparation strategies.**

- Provide individualized instruction in a remote learning environment.

Computer Science Lab Assistant — American University of Science and Technology (AUST)

October 2025 – February 2026

- Assisted students during programming labs and guided them through course exercises.
- Supported instructors in troubleshooting coding issues and explaining technical concepts.
- Helped maintain an organized and productive learning environment during lab sessions.

TRAINING :

- **On Ramp Bootcamp — Full Stack Web Development with AI** (*Forward MENA*)
May 2025 – August 2025
 - Intensive program covering full stack development, AI integration, and modern web technologies.
 - Collaborating on projects using GitHub for version control.
- **UI/UX Design Intern** (*BrainKets*)
January 2025
 - Designed wireframes and prototypes using Figma.
 - Developed React components based on UI designs for interactive web applications.

CERTIFICATIONS:

- **AI Fundamentals** — *IBM SkillsBuild (in collaboration with Cisco)*
Issued September 2024
- **Artificial Intelligence Fundamentals** — *IBM SkillsBuild, Student Ambassador Program*
- **CCNA v7: Introduction to Networks** — *Cisco*
Issued September 6, 2023

PROJECTS:

- **HR Web App – Attendance Module** (*React, TypeScript, Swagger, Docker, DBeaver*) —
June 2025 (In Progress)
 - Developing both frontend and backend modules for employee attendance tracking.
 - Implementing REST APIs with Swagger documentation and containerized services using Docker.
 - Integrating database operations and testing via DBeaver.

- **LifeLine Lens – Elderly Monitoring System** (*Computer Vision, AI, Python*) May 2025
- Built an AI-powered smart camera system to monitor elderly individuals' daily activities.
- Detects unusual movements or falls and sends alerts to caregivers in real time.
- Combines computer vision, behavior analysis, and live notifications.
- **QuickTalk – AI-Powered Online Chatting Website** (*Next.js, React, Node.js, TypeScript, Clerk, WebSockets, Convek DB*) November 2024
- Developed a real-time chat platform with AI integration and image generation.
- Implemented authentication, group chat, and dark/light themes.
- **Awarded First Place** in the Web Programming Lab Expo.
- **Fake News Detection** (*Python, Pandas, Machine Learning*) — Summer 2023
- Preprocessed text data and applied machine learning models for classification.
- **Hotel Management System** (*UML, Software Engineering*) — Fall 2023
- Designed a system for managing hotel bookings and customer data.
- Applied UML diagrams and testing methodologies.

TECHNICAL SKILLS:

- **Programming Languages:** Python, Java, C++, JavaScript, TypeScript, HTML, CSS
- **Frameworks & Libraries:** React.js, Next.js, Node.js, Pandas, NumPy
- **Tools & Platforms:** GitHub, Docker, Swagger, Figma, Eclipse, NetBeans, Android Studio, DBeaver
- **Game Development:** Roblox Studio (Lua scripting)
- **Networking:** Cisco CCNA (Introduction to Networks), Cisco Packet Tracer
- **Data Science & Machine Learning:** Data preprocessing, feature engineering, classification models, computer vision