

# Myriam Hamam E. Abdelmalek

Software Engineering | Full-Stack & Mobile Developer

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🌐 Portfolio Website

🌐 [linkedin.com/in/myriam-hamam](https://www.linkedin.com/in/myriam-hamam)



PORTFOLIO

 PROFILE

3rd-year Software Engineering student at Misr International University with expertise in Full-Stack Development, System Design, and Mobile Architecture. Passionate about building scalable, high-performance software solutions and seeking an internship to contribute to innovative development teams.

 EDUCATION

**Bachelor of Computer Science**  
**Misr International University (MIU)**

- **Major:** Software Engineering | **Minor:** Software Development
- **Key Coursework:** Advanced Database Systems, Operating Systems, Computer Vision, Algorithm Analysis.

Expected Graduation: June 2027

 EXPERIENCE

**Teaching Assistant (TA)**  
**Misr International University (MIU)**

- Assist in conducting undergraduate Mathematics tutorial sessions, focusing on logical derivations.
- Break down complex mathematical problems into clear, structured, and manageable steps for students.

2025 – Present

 TECHNICAL SKILLS

<b>MOBILE &amp; AI DEVELOPMENT</b> Kotlin, Java, Android Studio, Android SDK, XML, Python, OpenCV, MediaPipe	<b>BACKEND &amp; WEB DEVELOPMENT</b> React.js, Node.js, Express.js, Flask (REST APIs), Django, Firebase, SQL, MongoDB, JSON
<b>ARCHITECTURE &amp; DESIGN</b> OOP, SOLID Principles, MVC Architecture, Design Patterns, UML, ERD, DFD, Use Case Modeling	<b>DEVOPS, TOOLS &amp; DATA</b> Git, GitHub, Agile, Scrum, SDLC, CI/CD Fundamentals, Postman, Power BI, ETL, SQL Server

 TECHNICAL PROJECTS

- Blink-to-Click – Accessibility HCI System**  
  - Developed a hands-free interaction system using real-time eye-blink detection via MediaPipe and OpenCV.
  - Integrated a Flask REST API to connect AI processing modules with Android and web interfaces.
- Python, Kotlin, OpenCV
- TripLink / CampusEats – Full-Stack Applications**  
  - Built scalable applications with secure authentication and real-time database integration using MVC principles.
- React.js, Node.js, Firebase
- Recruitment Management System**  
  - Designed a modular system with candidate filtering, secure login, and file-based data persistence.
- Java, OOP, Design Patterns
- PintOS Kernel Optimization**  
  - Enhanced thread scheduling and redesigned alarm clock synchronization to eliminate busy-waiting in the OS kernel.
- C Programming
- MIU Networking System**  
  - Designed a secure network with VLAN segmentation, multi-area OSPF routing, VPN tunnels, and NAT.
- Cisco Packet Tracer
- Personal Portfolio Website**  
  - Developed a fully responsive website with optimized UI and cross-device compatibility.
- HTML5, CSS3, JavaScript