Myriam Hamam E. Abdelmalek

Software Engineering │ Full-Stack & Mobile Developer

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🌐 Portfolio Website   in linkedin.com/in/myriam-hamam

👤 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   **Expected Graduation: June 2027**
Misr International University (MIU)
- **Major:** Software Engineering │ **Minor:** Software Development
- **Key Coursework:** Advanced Database Systems, Operating Systems, Computer Vision, Algorithm Analysis.

💼 EXPERIENCE

Teaching Assistant (TA)   **2025 – Present**
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.

</> TECHNICAL SKILLS

MOBILE & AI DEVELOPMENT
Kotlin, Java, Android Studio, Android SDK, XML, Python, OpenCV, MediaPipe

BACKEND & WEB DEVELOPMENT
React.js, Node.js, Express.js, Flask (REST APIs), Django, Firebase, SQL, MongoDB, JSON

ARCHITECTURE & DESIGN
OOP, SOLID Principles, MVC Architecture, Design Patterns, UML, ERD, DFD, Use Case Modeling

DEVOPS, TOOLS & DATA
Git, GitHub, Agile, Scrum, SDLC, CI/CD Fundamentals, Postman, Power BI, ETL, SQL Server

⛓ TECHNICAL PROJECTS

Blink-to-Click – Accessibility HCI System   **Python, Kotlin, OpenCV**
- 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.

TripLink / CampusEats – Full-Stack Applications   **React.js, Node.js, Firebase**
- Built scalable applications with secure authentication and real-time database integration using MVC principles.

Recruitment Management System   **Java, OOP, Design Patterns**
- Designed a modular system with candidate filtering, secure login, and file-based data persistence.

PintOS Kernel Optimization   **C Programming**
- Enhanced thread scheduling and redesigned alarm clock synchronization to eliminate busy-waiting in the OS kernel.

MIU Networking System   **Cisco Packet Tracer**
- Designed a secure network with VLAN segmentation, multi-area OSPF routing, VPN tunnels, and NAT.

Personal Portfolio Website   **HTML5, CSS3, JavaScript**
- Developed a fully responsive website with optimized UI and cross-device compatibility.