

# Ahmed Mostafa

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## Summary

A junior Computer Science student majoring in Software Engineering in Misr International University class of (2027), with experience in full-stack web, Android, DevOps, Software Testing, and security. Completed internships at NBE, ITIDA, and Fuzetek, built a deployment toolkit, delivered Vaultique and Cybertopia, and led the MSP-MIU website. Seeking junior roles in secure, scalable systems, automation, and CI/CD.

## EDUCATION

- Misr International University** Cairo, Egypt  
*Bachelor of Computer Science, Expected Graduation: July 2027* Oct 2023 – Present

## EXPERIENCE

- DEPI – (Digital Egyptian Pioneers Initiative)** Cairo, Egypt  
*Software Development - Android Mobile App Developer* Jun 2025 – Present
  - Developing native Android applications using Kotlin, Jetpack Compose, Material Design Components, and Room/Firebase integrations.
  - Gaining hands-on experience in app security, UX/UI patterns, unit testing, and functional documentation through a capstone project.
- National Bank of Egypt (NBE)** Cairo, Egypt  
*Live Environment Support (DevOps & Automation) Intern* Jul 2025 – Jul 2025
  - Built a Bash/PowerShell automation toolkit (disk space validation, safe cleanup, full + Git-aware backups) adopted by the DevOps team, improving deployment reliability and reducing manual errors.
  - Automated deployment pipelines on Azure DevOps for Oracle-based core/non-core banking systems and Windows applications, minimizing manual effort in mission-critical environments.
  - Worked closely with UAT and production systems, gaining operational insight into core banking infrastructure and performance considerations.
- ITIDA Gigs Freelancing Program** Cairo, Egypt  
*Freelancing Software Tester* Feb 2025 – Apr 2025
  - Conducted manual and automated testing with Selenium, designing structured test cases and improving defect detection by 25%.
  - Recognized as a top achiever; gained experience in client communication and freelancing workflow.
- Fuzetek** Cairo, Egypt  
*Software Engineering Intern* Feb 2025 – Mar 2025
  - Ranked in the top 5% among 300+ interns by solving 50+ problems in Python and C++.
  - Participated in coding sessions, debugging, and testing tasks across small development projects.

## PROJECTS

- Vaultique - Luxury Watches E-Commerce Platform (Node.js, Express, MongoDB)** Jun 2025  
(Live at: <https://vaultique.live>) (GitHub: <https://github.com/ahmedmo-27/Vaultique-MIU>)
  - Built a production e-commerce platform with JWT & Google OAuth, role-based admin, real-time inventory, and a 3D product configurator (Three.js).
  - Integrated Stripe, Twilio, and Nodemailer; hardened backend with Helmet, rate-limiting, caching, and deployed via CI/CD on DigitalOcean with HTTPS/SSL (90%+ test coverage).
- Cybertopia - Cybersecurity Honeypot Platform (Python, PostgreSQL, Node.js, Cowrie)**

Oct 2025 (Developed for the Digitopia Competition Cybersecurity Section)

(GitHub: <https://github.com/CyberToppers/Cybertopia>)

- Led a group of 5 people and built an automated honeypot logging pipeline on a DigitalOcean droplet, capturing 500K+ SSH attack events from 300+ malicious IPs, enriched via OSINT APIs and stored in PostgreSQL for threat analysis.
- Engineered reliable ingestion services with systemd, timers, and backend automation, delivering high-availability telemetry and attacker summaries while applying software engineering best practices.

• **Cinemeteor - Movie Discovery App (Kotlin, Jetpack Compose, Firebase)** Present

(GitHub: <https://github.com/DEPI-3-Android/Cinemeteor>)

- Developing an MVVM Android app using Retrofit/OkHttp and Room offline caching; TMDB API provides dynamic movie data.
- Built Firebase Auth + Firestore synchronize for favorites; focuses on secure API key handling, Material 3 UI, and modular architecture for Play Store release.

• **MSP - MIU Official Website (React, Node.js, MySQL, Tailwind)** Present

(Live at: <https://msp-miu.tech>) (GitHub: <https://github.com/MSP-Tech-Club-MIU/MSP-MIU-Website>)

- Developing a full-stack platform for membership registration, event scheduling, leaderboards, and PDF schedule parsing (PDF → JSON → MySQL).
- Implemented normalized schema, JWT + bcrypt auth, Multer uploads, Nodemailer onboarding; deployed via CI/CD with HTTPS/SSL (Web: Heroku, DB: DigitalOcean).

## SKILLS

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- **Frontend:** React, Angular, HTML, CSS, Tailwind
- **Backend:** Node.js, Express, MongoDB, MySQL, PostgreSQL, REST APIs, Firebase
- **Mobile:** Kotlin, Jetpack Compose, Android, Retrofit, Room, XML
- **Testing:** Selenium, Jest, Supertest, JUnit
- **DevOps:** Docker, CI/CD (GitHub Actions, Azure DevOps), Bash/PowerShell, AWS, Git, DigitalOcean, Linux
- **Languages:** C++, Java, Python, SQL, JavaScript, PHP

## Certificates

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- **DevOps Foundations** – (Sprints x Microsoft Summer Camp), **Learning Selenium** – (LinkedIn Learning), **ISTQB Foundation Level** – (Orange Digital Center & Skills Dynamix), **A2 German** – (Goethe Institute), **Mastering Effective Communication Skills** – (AI Mentor)

## VOLUNTEERING

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- **MSP - MIU** Head of Software Development  
Sep 2025 – Present
  - Leading a cross-department software team, coordinating priorities, mentoring 25+ junior members, and driving club-wide technical initiatives.
  - Collaborating with HR, PR, Technical Training and Event Planning to streamline operations, organize workshops, and improve communication and member engagement.
- **IEEE - MIU** Public Relations  
Sep 2024 – Jun 2025
- **Model United Nations - MIU** Delegate  
Sep 2023 – Jun 2024