

Omar Mohamed Abduh

Cairo, Egypt

+201011048726 omar.mohamed.abduh@gmail.com [linkedin.com/in/omar-abduh](https://www.linkedin.com/in/omar-abduh) github.com/Omar-Abduh
omarabduh.dev

Profile

- Cybersecurity student with strong hands-on experience in offensive security, ethical hacking, and penetration testing, focused on identifying, exploiting, and mitigating web, network, and system vulnerabilities. Demonstrated ability to design and develop security automation tools and scripts to enhance vulnerability assessment and security testing efficiency. Experienced in securing and analyzing applications across web, network, and cloud environments using industry-standard tools and methodologies.
- Passionate about Digital Forensics and Incident Response (DFIR), with a strong interest in evidence analysis, attack reconstruction, and threat investigation to support incident handling and strengthen defensive security strategies.

Education

Elsewedy University of Technology - Polytechnic of Egypt (SUTech)

10th of Ramadan City, Egypt

B.Sc. in Cybersecurity; GPA: 3.4/4.0

Sep 2023 – Present

Experience

AIESEC in Ain Shams

Cairo, Egypt

Incoming Global Talent (IGTa) Member

Feb 2026 – Present

- Managed B2B relations and recruitment workflows to match international talent with local corporate internship opportunities.
- Coordinated cross-functional tasks and logistics to streamline the onboarding process and ensure seamless cultural integration for incoming participants.

Corelia

Cairo, Egypt

Offensive Pentest Intern

Aug 2025 – Dec 2025

- Performed end-to-end web and mobile penetration testing, identifying critical OWASP Top 10 vulnerabilities with validated exploitation evidence.
- Conducted manual and automated security assessments to detect misconfigurations, insecure APIs, and authentication flaws, strengthening overall system security posture.
- Analyzed source code, delivered technical remediation reports, and solved CTF challenges, enhancing secure development awareness and adversary simulation skills.

Techorus

Cairo, Egypt

Software Development Intern

Apr 2025 – Jul 2025

- Developed Laravel-based admin dashboards using Filament (Livewire/Tailwind), implementing CRUD operations and role-based access control to improve system efficiency.
- Contributed to backend and frontend development, optimizing workflows and enhancing application performance and user experience.
- Conducted UX research (personas, journey mapping) and built data visualizations to support data-driven decision-making and clearer insights.

ICESCO Cybersecurity Workshop

SUTech

Technical Assistant

Jul 2025

- Led hands-on cybersecurity labs for 50+ participants, covering Nmap, Metasploit, and web exploitation techniques (XSS, SQLi).
- Delivered training on MITRE ATT&CK framework and APT simulation scenarios, enhancing understanding of real-world attack methodologies.

World Urban Forum 12 — UN-Habitat

Cairo, Egypt

Interpretation Technical Operator

Oct 2024 – Nov 2024

- Supported live interpretation operations for UN events, ensuring smooth technical execution and session continuity.
- Managed real-time troubleshooting and coordination for international conference sessions.

Suez Canal Bank

Cairo, Egypt

IT & Network Infrastructure Intern

Sep 2024 – Sep 2024

- Supported deployment, monitoring, and troubleshooting of core banking network infrastructure.
- Assisted in maintaining system availability, security, and access control across IT environments.

SAP — Systems, Applications and Products

Cairo, Egypt

AI, ERP & Consulting Intern

Aug 2024 – Sep 2024

- Supported SAP ERP module configuration to optimize business processes and improve operational workflows.
- Contributed to AI-driven analytics and consulting initiatives while collaborating with cross-functional teams to enhance client solutions and requirements gathering.

Programming Bootcamp

SUTech

Instructor

Feb 2023

- Selected as one of 10 instructors from 600 students to teach programming fundamentals to peers, achieving high engagement and positive feedback.

Projects

Campus Management Platform | services.sut.edu.eg

SUTech

2025 – Present

- Built core modules of a university services platform using Next.js, React, and Supabase, enabling secure service booking and subscription workflows for hundreds of students.
- Developed a full-featured admin dashboard with role-based access control (RBAC), audit logging, and service management to streamline administrative operations.
- Led architectural planning and feature design, focusing on scalability, reliability, and security-by-design to support future analytics and staff workflows.

ESP Pentesting Toolkit | ESP32, ESP-IDF

Nov 2025

- Engineered an ESP32-based wireless pentesting toolkit supporting Wi-Fi/BLE packet capture and deep frame inspection, with automated PCAP export, reporting, and timeline evidence generation.

RAG-Powered Knowledge Agent

Jul 2025

- Developed a RAG-based AI agent for secure document ingestion and contextual Q&A, deploying it with Supabase and n8n, and enhancing retrieval accuracy through hybrid vector-keyword search with weighted fusion and monitoring.

Enhanced DevOps Security Using AI | [DevSecOps](#)

Dec 2024 – May 2025

- Engineered an AI-driven security layer for CI/CD pipelines, leveraging Isolation Forest, DeepLog, and Transformer models to detect anomalies and multi-step attack patterns.
- Built a full ELK-based monitoring pipeline (Filebeat, Logstash, Elasticsearch, Kibana) for real-time log ingestion, analysis, and threat visualization.
- Integrated automated security controls (SAST, dependency, and container scanning) with CI/CD anomaly checkpoints to strengthen pipeline security.
- Implemented continuous ML-based monitoring with feedback-driven retraining and real-time event correlation for actionable threat detection.

InvenTrack — Inventory Management System | inventrack.omarabduh.dev

Apr 2025 - Oct 2025

- Developed a scalable multi-warehouse inventory system with real-time stock tracking, supplier management, and order/return workflows to improve operational efficiency.
- Built secure role-based dashboards and CRUD operations using FilamentPHP and Filament Shield, implementing fine-grained access control.
- Implemented automated alerts (low-stock, expiry), real-time KPI analytics, and RESTful APIs (Laravel Sanctum) with Excel import/export for workflow automation.

Pharmacy Management System (PMS) | Elsewedy University of Technology

May 2024

- Developed a Pharmacy Management System (PMS) using Java, JavaFX, MySQL, and Python services, implementing employee management, inventory control, and automated order processing, along with analytics-driven communication and reporting pipelines to improve operational efficiency and reduce errors.

Certifications

- ISC² Certified in Cybersecurity (CC) – Content Completed
- Cybersecurity for Beginners – ITI and Mahara Tech
- CCNA - Content Completed

Volunteering

IEEE	SUTech
R&D Member	2025 – Present
- Contributed to research and development initiatives in emerging technologies, including AI, IoT, and cybersecurity. - Collaborated with team members to prototype solutions, perform experiments, and document findings for technical reports.	
NextGenTech Student Club — SUT	Cairo, Egypt
Tech Team Head	Sep 2024 – Sep 2025
- Organized workshops and mentoring sessions to enhance members' skills in software development, DevOps, and cybersecurity. - Collaborated with cross-functional teams to ensure timely delivery of technical tasks and high-impact club activities.	
Cyber Hub Club	SUTech
Tech Team Lead	Sep 2023 – Sep 2024
- Led a team of developers to plan and execute club initiatives, resulting in successful technical events. - Organized inter-club collaborations and technical workshops, increasing engagement and knowledge sharing.	

Skills

Offensive Security & Cybersecurity Tools: Burp Suite, Metasploit, Nmap, Kali Linux, OWASP Top 10, MITRE ATT&CK Framework, Python (Security Automation)

DevSecOps & Automation: Docker, Jenkins, CI/CD Pipelines, Git, SonarQube, Trivy (SAST/SCA), VS Code

Software Development & Programming: PHP, Laravel, Next.js, JavaScript, Java, Spring Boot, HTML, CSS

Networking & Infrastructure: TCP/IP, Cisco Networking, MySQL, Supabase, Network Simulation (Packet Tracer)

Soft Skills: Problem Solving, Critical Thinking, Team Leadership, Communication, Collaboration, Adaptability, Time Management, Analytical Thinking