Omar Abdelsalam

Computer Engineering Student

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PROFILE

Top-achieving Computer Engineering student (GPA 4.1/4.3) at Elsewedy University of Technology with proven expertise in cybersecurity and software development. Certified in Python programming and SQL, with hands-on experience in penetration testing tools including Burp Suite, Wireshark, and Forensics. Skilled in web development utilizing HTML, CSS, and JavaScript to analyze security vulnerabilities and develop secure solutions. Proficient in multiple programming languages with a security-first mindset, seeking new well-positioned to contribute to organizations seeking strong cybersecurity solutions and secure software development.

EDUCATION

Polytechnic of Egypt   10th of Ramadan
Bachelor of Network and cybersecurity   *Oct 2024 – Jan 2028*
- Top-achieving Computer Engineering student (GPA 4.1/4.3) at Elsewedy University of Technology - Polytechnic of Egypt (2024-25) with a specialization focus on cybersecurity

EXPERIENCE

Machine Learning Intern   Aug 2025 – Sep 2025
Vodafone
Worked on training machine learning models to improve predictive accuracy in internal data analysis tasks

Learned and applied core ML algorithms including Decision Trees and Random Forests

Collaborated with data scientists to evaluate model performance and fine-tune hyperparameters

Contributed to feature engineering and data preprocessing pipelines to enhance model inputs

Documented model development process, experiment results, and best practices for future reference

IT Intern – Full Stack Security & Infrastructure   Jun 2025 – Jul 2025
Al Dahra Agriculture Company
Contributed to both frontend and backend development of internal dashboards with a focus on usability and security

Implemented secure coding practices and role-based access control (RBAC) to protect sensitive agricultural data

Collaborated with the IT infrastructure team to monitor and maintain secure networks and server environments

Participated in code reviews and security testing to ensure compliance with best practices

Developed and documented procedures for secure deployment and routine maintenance of full-stack applications

PROJECTS

Tok Ride-Sharing Platform | *HTML, CSS, JavaScript*   2024
- Developed an Uber-like platform with real-time driver/rider matching system
- Implemented responsive design and user authentication features

Product Solar Management System | *Python , MySQL*   2024
- Built comprehensive inventory management system for retail business
- Designed normalized MySQL database schemas for efficient data management
- Created user-friendly GUI for order processing and stock control

Airline Ticket Booking System | *Java, MySQL, Swing*   2024
- Developed desktop application with full flight booking functionality
- Implemented secure user authentication and ticket management system
- Integrated MySQL backend for data persistence and complex queries

Restaurant Management System | *Python, JSON*   2024
- Created console-based system for menu management, order processing, and reservations
- Implemented JSON-based data storage with efficient search and retrieval algorithms

YouTube Content Downloader | *Python, Pytube*   2024
- Developed Python application for downloading YouTube videos in multiple formats
- Implemented error handling and user input validation

Courses

Python Programming Jul 2025 – Jul 2025
Cisco

Introduction to Cybersecurity Jul 2025 – Jul 2025
Cisco

Network Basics Jul 2025 – Jul 2025
Cisco

Technical Skills

Languages: Python, Java, MySQL, HTML/CSS, MongoDB
Cybersecurity Tools: Wireshark, Java Swing, Cisco Packet Tracer, Burp Suite, Pytube
Developer Tools: Git, VS Code, Auto CAD
Databases: MySQL, MongoDB, JSON
Languages: Arabic (Native), English (Highly proficient)