Omar Shahin

Software QC Engineer

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Summary

Sharp Software Quality Engineer with hands-on experience in manual and automated testing, executing 50+ test cases and reporting 30+ bugs to boost product stability in agile environments. Eager to apply and expand testing expertise to ensure fast, secure, high-quality, and scalable software solutions.

Education

B.Eng. Electronics and Communications *Sep 2019 – Jun 2025*
Alexandria University, Alexandria, Egypt
Key Courses: Data Structures, Algorithms, Operating Systems, Microcontrollers, Engineering Optimization, Computational Mathematics, Probability Theory

Alexandria STEM School, Alexandria, Egypt *Sep 2016 – Jun 2018*
Key Courses: Capstone Projects, Advanced Calculus, Journal Writing, Modern Physics

Experience

Software Quality Control Trainee
Digital Egypt Pioneers Initiative (DEPI) *Sep 2024 – Jun 2025*
Alexandria, Egypt

- Conducted functional, regression, and exploratory testing across multiple platforms.
- Designed and executed test cases aligned with requirements and acceptance criteria.
- Reported software defects and tracked them using JIRA, contributing to increased system stability.
- Developed test scenarios and test data based on use cases and user stories.
- Gained hands-on experience in Selenium WebDriver for automated UI testing and Postman for RESTful API validation.
- Participated in Agile ceremonies including sprint planning, backlog grooming, and daily stand-ups.

Network Administration Trainee
National Telecommunication Institute (NTI) *Sep 2023 – Dec 2023*
Alexandria, Egypt

- Trained on CCNA fundamentals including routing, switching, and network protocols.
- Applied hands-on troubleshooting and configuration in Cisco Packet Tracer.
- Gained foundational skills in IP addressing, subnetting, network security, and VLAN configuration.
- Understood automation principles related to software-defined networking (SDN).

Skills

Testing & QA: ISTQB, Manual Testing, Test Case Design, Regression Testing, Functional Testing, Test Automation, API Testing, Agile, SDLC, STLC

Networking: OSPF, EIGRP, VLANs, Troubleshooting

IDEs & Platforms: IntelliJ IDEA, Visual Studio, Arduino IDE, Oracle Developer Studio, Code::Blocks

Programming Languages: Python, Java, C, SQL

Tools & Frameworks: Selenium WebDriver, Postman, JIRA, Jenkins, Maven, Burp Suite, Wireshark, Cisco Packet Tracer, MATLAB, Proteus, Multisim

Embedded Systems: Arduino, STM32, ESP32,

Soft Skills: Analytical Thinking, Problem Solving, Team Collaboration, Communication, Adaptability

Languages: Arabic (Native), English (C1 - Advanced)

Projects

API Testing Suite – Weather & E-commerce APIs *2025*

- Designed automated API test suites for multiple endpoints using Postman and Newman CLI.
- Covered request validation, response time, status codes, and error handling for CRUD operations.
- Generated test reports and collaborated on bug resolution.

Selenium-based Automated Testing Framework *2024*

- Built a modular test automation framework in Java using Selenium WebDriver and TestNG.
- Implemented cross-browser testing and automated login flows for web applications.
- Used Page Object Model (POM) design pattern and integrated logging and reporting mechanisms.

Networking Projects with Cisco Packet Tracer *2023*

- Set up and configured a small business network in Cisco Packet Tracer
- Configured routing protocols like RIP, OSPF, and EIGRP
- Implemented firewall rules and VLAN configurations for secure and efficient communication

Password Security Demonstrator Tool *2022*

- Developed a Python-based tool for brute-force and dictionary attacks to showcase password vulnerabilities.
- Highlighted the importance of strong password policies in cybersecurity education.