

Alaa Ahmed

QC Engineer

 alaavbni578@gmail.com  01110967825  www.linkedin.com/in/alaahmed-9392671b5
 https://github.com/alaahmed17  Cairo

Profile

Recent graduate with a strong foundation in machine learning and software development, proficient in Python, TensorFlow, and various machine learning algorithms. Experienced in software testing, with a track record of identifying and resolving critical bugs. Passionate about applying analytical and problem-solving skills to real-world challenges. Adept at working in fast-paced environments and committed to continuous learning and professional growth. Seeking a dynamic role to contribute technical expertise and drive impactful solutions.

Education

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| 2019 – 2024 | Shobra Engineering, Benha University , Bachelor's in Computer Science <ul style="list-style-type: none">• Gradation Grade: Excellent.• Gradation Project: Self-driving Car(Grade: Excellent). |
| Jun 2024 – Nov 2024 | Software Testing Scholarship , Digital Egypt Pioneers (DEPI) <ul style="list-style-type: none">• Covered Java programming, web fundamentals, Agile methodologies, SDLC, API testing, ISTQB concepts, SQL database testing, and test automation. |

Professional Experience


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| Jan 2025 – present | freelancing Coach – Elharefa <ul style="list-style-type: none">• Mentoring students in the Digital Egypt Pioneers (DEPI) program on freelance software testing projects.• Providing career guidance and strategies to enhance professional opportunities on freelancing platforms. |
| Aug 2024 – present | Freelance Tester Utest Community Testio Community <ul style="list-style-type: none">• Conducted manual and exploratory testing across multiple platforms, improving functional, usability testing and regression testing of Web and Mobile applications.• Reported and documented critical software bugs, enhancing platform performance. |
| Jun 2024 – present
Remote | Part-Time Coding Instructor – iSchool (DEMI Project, MCIT Egypt) <ul style="list-style-type: none">• Taught programming fundamentals to 4th-grade students, introducing mobile app development concepts.• Currently teaching 5th-grade students about artificial intelligence and problem-solving techniques. |

Projects

Self-deriving Car, Graduation Project

- Developed an autonomous vehicle system using **YOLOv8 models** to detect surroundings and make real-time decisions.


DummyJSON API Testing

- Developed and executed API tests using Postman, ensuring functionality and performance. Automated testing process with Jenkins, leading to improved reporting and efficiency.
- **Programming Language:** javascript **-Github** 


SwagLabs project

- Developed and implemented end-to-end test automation using Selenium, TestNG, and CI/CD tools to enhance testing efficiency for an e-commerce platform.
- **Technologies:** Selenium, Java, TestNG, Maven, Jenkins, GitHub Actions **-Github** 


CPU Scheduler, Simple CPU scheduler that implements RR, SJF, FTCTF, MLFQ.

- **Programming Language:** C **-Github** 

Bank System

- implement IMT Bank System .This project consists of 2 main features 1- Admin Window. 2- Client Window.
- **Programming Language:** C -[Github](#) 

Smart Home

- **Used drivers:** DIO, LCD, Keypad, LED, MOTOR, KEYBAD, ADC. -[Github](#) 

Full-Fledged E-commerce Platform

- **Programming Languages:** JavaScript, Dockerfile -[Github](#) 

Simple Calculator, (Java, OOP)

applying core Object-Oriented Programming (OOP) principles such as encapsulation, inheritance, and polymorphism.

Courses

Aug 2024 – Aug 2024	Introduction to Software Testing Concepts & Techniques 
Aug 2024 – Aug 2024	Database Fundamentals 
Oct 2024 – Oct 2024	A complete Postman course 
Oct 2024 – Nov 2024	Manual Tetsing Course on QAcart 
2023 – 2024	Coursera, Machine Learning Specialization <ul style="list-style-type: none">- Supervised Machine Learning: Regression and Classification- Advanced Learning Algorithms- Unsupervised Learning, Recommenders, Reinforcement Learning
2023 – 2024	Coursera, Self-Driving Car
2023 – 2024	IMT, Embedded Systems
2021 – 2021	IEEE Anna University SB, Robotics

Techincal Skills

Programming language Python, C, java	OOP
Problem Solving	software testing methodologies
SQL database testing	Automation testing
Bug Reporting	API Testing
Database design and management :sql	Quality Assurance (QA): Manual testing, exploratory testing, regression testing
Technical Skills: Test case development, reporting, defect tracking, and root cause analysis	ICDL Word, Excel, PowerPoint
HTML & CSS & JavaScript	Quality Control
performance testing	Software Quality Engineering

Tools

Postman | IntelliJ | Xampp | Mamp | Selenium WebDriver | TestNG | VS | PyCharm | Jira | Agile/scrum | Eclipse | Microsoft Tools

soft skills

Fast Learning and Searching | Willing to learn | Organized | Attention to detail | analytical | communication skills | Quality Problem Solving