Abdelrahman Fergany

Software Testing Engineer

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Cairo, Egypt | 28/11/1998

Professional Summary

ISTQB-certified **Software Testing Engineer** with hands-on experience in **manual testing, backend validation, and SQL-based data verification**. Skilled in **test case design, bug reporting, and regression testing**, with growing expertise in **automation testing (Selenium, Postman, PyTest)**. Agile-certified professional with a strong foundation in software development and AI, bringing analytical thinking, problem-solving, and collaboration skills to deliver **high-quality, reliable software** across global teams.

Professional Experience

- **Software Engineer I at FlairsTech (Jan 2024 – Present)** Cairo, Egypt

  - Designed and executed manual test cases to validate backend features and business requirements.

  - Maintained and enhanced a legacy system built with .NET Framework, ensuring stability and performance improvements.
  - Worked with a database-first approach, managing and optimizing SQL Server queries for efficient data handling.
  - Developed and debugged backend features, fixing critical issues to enhance system reliability.
  - Created and executed manual test cases based on business requirements.
  - Collaborated with QA team to identify edge cases and validate complex data scenarios.
  - Performed functional, regression, and integration testing, improving system reliability.
  - Used SQL queries to validate data integrity after testing processes.
  - Implemented new features, adding functionality to improve the system and meet business requirements.
  - Conducted unit testing and integration testing, including testing cards to ensure functionality and accuracy.
  - Collaborated with cross-functional teams to analyze requirements, implement solutions, and document development processes.

- **Data Migration Engineer at FlairsTech (Jan 2023 – Dec 2023)** Cairo, Egypt

  - Collecting requirements from the business team
  - Analyzing data in different formats such as diagrams and interaction trees
  - Migrating client data from legacy system to another one using ETL methodology and tools
  - Designed and executed test cases to verify data integrity post-migration.
  - Coordinate and develop test cases with QA team.
  - Performed manual testing on data flows between legacy and target systems.
  - Logged defects found during testing, worked closely with developers to resolve them.
  - Documenting the whole process in the new format to match the new platform requirements.

- **Programming Fundamentals Instructor at School Plus+ (Jun 2024 – Present)** Cairo, Egypt

  - Taught core programming concepts (C++, Python) to beginners and intermediate learners.

- **AI Instructor / Mentor at Route (May 2022 – November 2023)** Cairo, Egypt

  - Delivered live training sessions on AI fundamentals, machine learning, and Python programming.

  - Taught students how to build AI models using tools like TensorFlow, Keras, NumPy, and Pandas.

  - Created and reviewed coding assignments, providing feedback to improve students' understanding.

  - Guided students through real-world projects, including classification, image recognition, and recommender systems.

  - Adapted teaching styles to fit both beginners and intermediate learners across different age groups.

  - Helped students troubleshoot and debug their code — improving their problem-solving skills.

Technical Skills

Manual Testing, Automation Testing, Test Case Design, Regression Testing, Bug Reporting, Test Documentation, SQL Data Validation, Defect Tracking (JIRA), Agile Testing, Problem solving, C++, C, Python, TensorFlow, Pandas, NumPy, HTML, CSS, jQuery, JavaScript, Bootstrap, SQL, Keras, OOP, Data structure, algorithms, C#, Prompt Engineering, Documenting, Agile Certified, testing.

Projects

- **Smart Fitting System (Graduation Project):**
  Using AI virtual try-on technology to build a smart fitting system that first detects the user's gender and age and recommends a proper clothing item, then fits that item virtually on the user's body using an AI module. My team and I managed to produce a satisfying synthesized image.
- **Clothing classification** using fashion-MNIST dataset to classify a clothing image into 10 classes.
- **Face -detection** using cascade classifier.
- **Handwritten digit classifier** using MNIST dataset.
- **Pet store website** with .NET and MVC architecture.
- **COVID Patient Assistant:**
  Developed and analyzed a COVID-patient assistant system that helps patients search for: available rooms in hospitals, nearby pharmacies, and medical equipment providers. Used MySQL to build the project's database.

Training / Courses / Certifications

- ISTQB Certified Tester
- Agile SW Development – SECC, ITIDA
- Automation Testing Masterclass - Selenium, Cucumber and More – Udemy
- Front-end developing workshop at K vector foundation (2017/2018)
- C++ Programming – Udemy
- Version Control – Coursera
- Artificial Intelligence intro – IBM
- AI for everyone – Coursera
- Machine Learning Specialization – Coursera:
  1- Supervised Machine Learning
  2- Advanced Learning Algorithms
  3- Unsupervised Learning, Recommenders, Reinforcement Learning

- Global Banking & Markets virtual Experience – HSBC
- Convolutional Neural Network – Stanford University
- Prompt Engineering – Coursera
- Back-End Development with .Net – Route

Volunteering / Leadership Activities

- K Vector Foundation (2018 – 2019)   *Front-end Development Instructor*
- Target (Student Activity) (2018 – 2019)   *Scientific Committee member*
- DSC MUST (2019 – 2020)   *Core team member*
- Student Union (2019 – 2020)   *Scientific Committee member*
- MUST CPC (2020 – 2022)   *Vice President*
- ECPC Qualification (2023)   *Coach*

Education

- **BS in Computers and Artificial Intelligence (2018/2022)**   GPA: 3.56
  Misr University for Science and Technology (MUST), Egypt
- **BS in Business (2017/2022)**   Grade: Good
  Ain Shams University (ASU), Egypt

Languages

Arabic: Native | English: Professional working proficiency