Hussain Khuzema

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Professional Summary

Results-driven **Software Test Analyst** and **QA Automation Engineer** with 2+ years of experience in manual and automated testing across web and mobile platforms. Proficient in building robust test frameworks using **Selenium**, **Playwright**, and **Postman**, with hands-on experience in **CI/CD**, **Agile**, and **data-driven QA practices**. Skilled in **Python**, **SQL**, and **AWS**, with strong exposure to AI, ML, and test analytics. Known for boosting test efficiency, reducing defects, and delivering high-quality releases for global clients.

Professional Experience

Python Developer & QA Automation Engineer (Freelance)

Fiverr | Aug 2022 – Present

- Delivered **100+ custom automation solutions** using Python, achieving a **95%+ client satisfaction rate**.
- Designed and implemented scalable **Selenium** and **Cypress** test suites, reducing manual regression testing time by **40%**.
- Worked with clients from around the world, including the **US, UK, Canada, Germany**, and the **Middle East**.
- Automated complex web scraping workflows using **BeautifulSoup** and **Requests**, saving clients **15+ hours/week** in manual effort.
- Built **Power BI dashboards** and **Python-based visualizations** (Matplotlib) to report test results and trends to stakeholders.
- Deployed automation scripts and services on **AWS EC2 and Lambda**, ensuring high availability and cost-effective scalability for production tasks.
- Utilized **AWS S3** for storing and retrieving test reports, logs, and structured data in automated pipelines.

Software Quality Assurance Engineer

Techlogix | Jan 2022 – Jan 2024 | Karachi, Pakistan

- Executed manual and automated QA for **INSTED** (US-based urgent healthcare app) across web and mobile (iOS/Android).

- Developed and maintained **BDD automation test suites** using **Selenium (Java), TestNG, and Cucumber**, reducing average regression cycle time by **25%** and ensuring consistency across sprints.
- Authored and executed over **1,200+ detailed test cases** and logged **700+ actionable defects** using **JIRA**, driving rapid bug resolution and improved sprint delivery.
- Conducted **API testing** with **Postman and Newman**, validating **200+ RESTful endpoints** and ensuring robust backend integration.
- Collaborated with cross-functional Agile teams in **20+ Scrum sprints**, participating in sprint planning, backlog grooming, daily stand-ups, and retrospectives.
- Supported **DevOps pipelines** by integrating test automation into **Jenkins CI/CD**, enabling faster build validation and deployment feedback.
- Contributed to QA documentation, test plans, and defect triaging, fostering clarity between developers, testers, and product stakeholders.
- Mentored junior interns on test case design, automation tools, and defect logging.

Software Quality Assurance Intern

Techlogix | Jan 2022 – Jun 2022 | Karachi, Pakistan

- Designed and executed manual test scenarios, achieving **98% coverage** for high-priority functional modules in client-facing applications.
- Automated API test suites using **Postman collections** and **Newman CLI**, enabling scheduled test runs and automated reporting.
- Participated in Agile ceremonies including sprint planning and daily stand-ups, gaining hands-on experience with **JIRA**, **Confluence**, and **Agile QA workflows**.
- Contributed to CI/CD initiatives by supporting integration testing in **Jenkins**, reinforcing continuous feedback loops.

Core Competencies

Testing & QA:
Manual Testing (Functional, Regression, Smoke, Sanity) | Automation Framework Design & Implementation (Selenium, Playwright) | API Testing (Postman, Newman, SoapUI) | Performance Testing (JMeter, LoadRunner) | Test Planning, Test Cases, Defect Management (JIRA)

Tools & Technologies:
Selenium WebDriver,Playwright, Cypress, TestNG, Cucumber | Python, Java, JavaScript | SQL, MySQL, MongoDB | Jenkins CI/CD, Git, JIRA, Confluence | Power BI, Matplotlib, Pandas

Methodologies & Concepts:
Agile/Scrum, Kanban | SDLC, DevOps Integration | Data Profiling, Quality Metrics | Web Scraping, Workflow Automation

Soft Skills:
Analytical Problem Solving | Clear Verbal & Written Communication | Stakeholder Collaboration | Time Management & Prioritization | Adaptability & Continuous Learning

Education

MSc in Computer Science | Grade: Merit

University of Northampton, UK | Jan 2024 – Feb 2025

BSc in Computer Science | CGPA: 3.35/4.0

FAST National University of Computer & Emerging Sciences, Karachi, Pakistan | Aug 2018 – Jun 2022

Certifications & Training

- Scrum Foundation Professional Certificate – CertiProf
- Data Analysis with Python: Zero to Pandas – Jovian.ml
- AI for Everyone – DeepLearning.ai
- Introduction to Relational Databases in SQL – DataCamp
- Introduction to Data Visualization with Matplotlib – DataCamp

Key Projects

- **Deepfake Detector Web App (MSc Dissertation)**: Developed a Django-based web application to detect deepfakes in images using a combination of deep learning models (Custom CNN, DenseNet201, ResNet50). Achieved 97.12% accuracy and 0.9952 AUC on test data using the custom CNN. Integrated Grad-CAM for explainability and confidence scoring for transparency. Enabled real-time detection with model selection and image uploads via a clean, user-friendly interface.
  Tools: Python, TensorFlow, Keras, Django, Grad-CAM, Jupyter, Pandas, NumPy
- **Doc Extractor (FYP):** Built an invoice data-extraction tool using LayoutLM (TensorFlow), Django backend, React frontend; converted scanned documents to JSON/XML with 92% accuracy.
- **Euro Coin Detection App:** Developed a Flutter mobile app with YOLOv5 object detection to identify and sum Euro coins in images (78% accuracy).
- **MPI vs. OpenMP Matrix Multiplication:** Implemented and benchmarked parallel matrix multiplication in C++ using MPI and OpenMP within Docker containers; analyzed performance trade-offs.