

# OMAR FARUK

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## PROFESSIONAL SUMMARY

Hands on Test Architect and Software QA Engineer with over 5 years of experience designing scalable testing strategies for web, mobile, and cloud-based applications in AWS environments. Expert in manual and automation testing using Selenium, Postman, JMeter, and LoadRunner, with advanced SQL skills for backend validation. Proven in architecting CI/CD pipelines, modular frameworks, and infrastructure automation to ensure secure, reliable software delivery in Agile teams, reducing defects by 25% and accelerating releases by 30%. Collaborative leader skilled in mentoring QA teams and aligning with DevOps best practices for high-impact results.

## WORK EXPERIENCE

Senior Software Quality Assurance Engineer | Virtus Solutions LLC | Georgia Aug 2023 – Apr 2025

- Led AWS-based QA testing for the State of Georgia MF2CLOUD project, migrating DHS applications from mainframe to AWS to enhance scalability and reduce infrastructure costs.
- Developed scalable test frameworks (Java, Selenium, Postman, JMeter) to automate functional/API testing.
- Performed automated API testing across REST and SOAP services, integrated testing with AWS Lambda, API Gateway, and RDS.
- Mentor juniors QA engineers on framework design and best practices, fostering a culture of continuous improvement.
- Collaborated with cross-functional teams for application deployment and management within AWS, integrating automated and manual testing approaches to proactively address quality issues in product design, development, testing, and deployment.
- Improved response times by 15% by identifying system bottlenecks through load testing with JMeter, LoadRunner, and CloudWatch.
- Automated infrastructure provisioning using Terraform and AWS CloudFormation to streamline environment setup.
- Spearheaded integration of QA workflows linking TestRail and JIRA tracking with Jenkins-based CI/CD pipelines to improve defect traceability and deployment quality.
- Performed statistical analysis and utilize AWS monitoring tools, such as Amazon CloudWatch, to assess product and process performance, identifying key areas for improvement.

Quality Assurance Engineer | Charter Communications, Spectrum | Stamford, CT Jun 2023 – Aug 2023

- Developed and implemented comprehensive quality assurance programs, policies, and procedures on AWS infrastructure, emphasizing manual testing methods and automation strategies to consistently meet or exceed customer expectations and regulatory requirements.
- Leveraged Amazon RDS for backend SQL testing and data validation. Proficiently wrote complex SQL queries and joins, created, and manipulated test data, and ensured data integrity through transactions.
- Led enterprise software architecture and testing strategies on AWS.
- Developed API integration standards for seamless data exchange.
- Incorporated Python and Java in CI/CD pipelines, improving deployment and testing processes.
- Contributed to the development and execution of test plans, cases, and scripts, focusing on iOS/Android platforms, and ensuring robust automation test suites.
- Engineered enterprise software testing strategies on AWS, incorporating modular frameworks for reusability across projects.
- Expert in using HPALM and JIRA for project and issue management, enhancing team coordination and workflow efficiency.
- Implemented and implemented CI/CD pipelines using DevOps tools like GitLab and Jenkins on AWS.
- Trained and guided onsite and offshore team members in quality assurance standards, policies and procedures.

- Designed and executed Python and Java-based test frameworks, focusing on backend API testing.
- Performed Manual tests and converted them to evaluate automation.
- Reviewed Product code and release with product owners and developers to set up test scope.
- Reporting defects, monitoring bug solutions, and efforts, and tracking successes.
- Comfortable working in both Java and Linux environments and ready to modify and rerunning Java codes for system robustness checks, simulating scenarios where multiple users can log in simultaneously.
- Conducted backend API security testing and compliance reviews.
- Implementing automation frameworks, ensuring usability, effectiveness, efficiency, and maintainability.
- Streamlined the defect tracking process, improving bug resolution time by 30%.
- Wrote and executed complex SQL queries for data validation and manipulation.
- Used Java, Kotlin, Eclipse, TestNG, Maven, Git, XML, JSON, SQL, POI, POM, and OOPs to design test scripts.
- Leveraged REST API using POSTMAN, demonstrating an understanding of both REST and SOAP APIs.
- Collaborated with IT and cybersecurity teams to close security gaps and ensure adherence to industry standards.
- Participated in Daily Scrum meetings, aiding in defining future stories and technical designs.
- Incorporated delivery requirements into planning of testing schedules.

### **TECHNICAL SKILLS**

- Proven ability to lead QA teams and manage testing life cycles, including test planning, execution, defect tracking, and release support.
- Strong background in both manual and automation testing, with hands-on experience using Selenium WebDriver, REST Assured, Postman, and custom-built test automated test suites.
- Experienced in black-box, white-box, and gray-box testing, along with performance testing using JMeter, LoadRunner, and AWS CloudWatch.
- Skilled in writing and executing complex SQL queries for backend validation, particularly in Amazon RDS environments.
- Comfortable building and testing APIs using tools like Postman, JMeter, and integrating with AWS API Gateway and Lambda functions.
- Proficient in core web technologies including JavaScript, Python, Java, XML, JSON, REST, and SOAP.
- Familiar with modern DevOps pipelines using Git, Jenkins, AWS Code Pipeline, and Terraform for CI/CD and infrastructure automation.
- Practical experience with cloud platforms including AWS (EC2, RDS, S3, CloudWatch, CloudFormation) and Azure for deployment, testing, and monitoring.
- Optimized performance testing protocols, identifying bottlenecks that enhanced application response times by 30%.
- Mentored over 15 QA engineers across teams, standardizing test practices and boosting team productivity by 25%.
- Agile team player with a strong understanding of Scrum methodologies, TDD, and continuous delivery in cloud-native environments.

### **EDUCATION & CERTIFICATIONS**

Bachelor's Degree | Computer IT Networking System | CUNY New York City Tech

Associate degree | The Borough of Manhattan Community College

Meta Certification | Programming with JavaScript

Test Automation Certificate | Test Automation with Python: 4 The WebDriver Automation Architecture