

## Muzamil Ahmed

Senior Software Test Engineer at ŌURA

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## Introduction

I am a dedicated Software Test Engineer with over a decade of experience in software testing and quality assurance. My expertise lies in developing and maintaining robust test automation frameworks, optimizing CI/CD pipelines, and collaborating with cross-functional teams to deliver high-quality software products. With a strong background in Python and Pytest, I have a proven track record of improving testing efficiency and reducing defect leakage.

## Skills

**Programming:** Python

**Test Automation:** Pytest, Appium

**Mobile Testing:** Android, iOS

**CI/CD:** GitHub Actions, CI infrastructure

**Testing Types:** Integration, Smoke, Acceptance, E2E, Regression, Exploratory

**Test Planning:** Test plans, Test cases, Test scripts, Frameworks

**Collaboration:** Cross-functional teams, Design discussions, Pair programming

**Issue Tracking:** Defect reporting, Tracking, Regression automation

## Professional Experience

### ŌURA July 2021 – Present

*Senior Software Test Engineer*

- Developed and maintained test automation frameworks using Python, Pytest, and Appium for Android and iOS applications.
- Enhanced automation library architecture for improved modularity and scalability.
- Implemented CI/CD pipelines using GitHub Actions, improving deployment efficiency.
- Improved CI infrastructure for iOS devices and simulators, reducing build times by 20%.
- Collaborated with infrastructure teams to refine CI workflows, enhancing pipeline robustness.

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### Pelion April 2021 – July 2021

*Senior Test Development Engineer*

- Optimized test automation scripts using Python and Pytest, increasing execution efficiency by 15%.
- Collaborated with cross-functional teams to review system requirements and test plans, ensuring high-quality product delivery.

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### Pelion November 2020 – April 2021

*Senior Test Development Engineer*

- Developed comprehensive test plans to enhance coverage for IoT-connected device services.
- Assisted in designing a Pytest function library for system test automation.
- Participated in design discussions, pair programming, and exploratory testing sessions.

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### **ARM April 2017 – November 2020**

*Test Development Engineer*

- Performed integration, smoke, acceptance, and end-to-end testing for IoT management platforms and device connectivity.
- Reviewed system requirements, feature requests, test plans, and test code.
- Contributed to design meetings, pair programming, and exploratory testing.
- Developed and managed test plans and automation scripts using Python and Pytest.
- Managed regression tests and issue tracking, reducing defect leakage by 25%.

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### **ARM March 2016 – April 2017**

*Graduate Engineer*

- Conducted integration, smoke, and end-to-end system testing.
- Reviewed system requirements, change requests, test plans, and test code.
- Created test plans and automation scripts using Python and in-house tools.
- Automated regression tests and managed issue reporting.

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### **i2c Inc April 2009 – August 2012**

*Senior Software QA Engineer*

- Created, executed, and maintained test documents and scripts.
- Performed detailed feature and regression testing.
- Reported, recorded, and re-verified defects.
- Participated in analysis meetings and reviewed test strategies.

## **Education**

- **University of Oulu, Finland 2012 – 2014**  
Master's Degree in Computer Software Engineering
- **University of the Punjab, Lahore, Pakistan 2005 – 2009**  
Bachelor of Science (Hons) in Information Technology

## **Certifications**

- **AI For Everyone – Coursera**  
Issued: August 2022  
Credential ID: 5JW7QZLUCSPM

- **Build Local Development Environments Using Docker Containers** – Coursera  
Issued: January 2022  
Credential ID: WNRNTBLZWXEF
- **Docker for Absolute Beginners** – Coursera  
Issued: December 2021  
Credential ID: JX5M2CR8BTRV

## Publications

- Tosun, A., Ahmed, M., Turhan, B., & Juristo, N. (2018). On the effectiveness of unit tests in test-driven development. *Proceedings of the International Conference on Software and System Process*, 113-122.
- Hosio, S., Ferreira, D., Goncalves, J., Van Berkel, N., Luo, C., Ahmed, M., et al. (2016). Monetary assessment of battery life on smartphones. *Proceedings of the CHI Conference on Human Factors in Computing Systems*, 1869-1880.
- Anagnostopoulos, T., Ferreira, D., Samodelkin, A., Ahmed, M., & Kostakos, V. (2016). Cyclist-aware traffic lights through distributed smartphone sensing. *Pervasive and Mobile Computing*, 31, 22-36.

## References

Available upon request.