Muzamil Ahmed

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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.

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.

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.

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%.

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.

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.