**Maha Nasir**

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# **IT-02 DATA TESTER (QA DATA)**

**Career Highlights**

* Over 5 years of experience in software engineering, specializing in Quality Assurance, Automation and DevOps.
* Adept at creating and maintaining automated pipelines in Jenkins/Azure for Continuous Integration/Deployment.
* Successfully ensured overall product quality within the teams, collaborating closely with team members to maintain high standards of testing and seamless delivery.
* Demonstrated technical expertise, proactive leadership, and mentorship in shaping the testing structure at Bitnine, earning praise from my Manager and Testing Lead.
* Proven track record of designing and implementing a diverse array of tests, encompassing Unit, Functional, scenario-based, Performance, Database etc.
* Hands on experience of automating tests and manual workflows with Python.
* Strong knowledge of SQA methodologies and proficient in a variety of programming languages which include but are not limited to Python, C++, SQL, Java etc and frameworks and tools such a Google C++ Test, PyCharm, Power BI, Postman.
* An expert in identifying and documenting defects, delivering high-quality code and maintaining the highest standards of testing.
* Excellent written and verbal communication skills.

**Technology Stack**

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| **Languages** | Python, C, C++, C#, SQL , Node |
| **Web Programming** | HTML, Java, PHP, JavaScript |
| **Tools & Frameworks** | Google C++ Test, PyCharm, Visual Studio, Power BI, Android Studio, ASP.NET, Node, Angular JS, Cucumber, Pandas, Visual Basic, SQL Server Management Studio, POSTMAN, Protractor, Eclipse, DreamWeaver, NetBeans, Turbo C |
| **Operating Systems** | Windows, Linux, MAC, IOS , Android |
| **Cloud Platforms** | Microsoft Azure |
| **VCS** | GitHub, Git, SourceTree |
| **CI/CD** | Jenkins, Azure |
| **RDBMS** | PostgreSQL, MySQL, MS SQL |
| **AGILE** | Microsoft Team Foundation Server, JIRA - Atlassian |

**Professional Experience**

**Software Engineer Feb 2023 – Aug 2023**

**BitNine Global Inc, South Korea (Remote)**

* Spearheaded the testing efforts in my team for the seamless data migration from Oracle to Postgres, contributing to the development team's success.
* Led package testing efforts, wrote tests for data migration, and trained interns, all while serving as a part-time intern. This contributed to the successful release of the product and garnered praise from my manager.
* Mentored and supervised interns, fostering their growth and development through support and constructive feedback.
* Authored comprehensive documentation on confluence on various testing activities.
* Designed and implemented a variety of unit and functional tests and utilizing PostgreSQL for executing various database operations.
* Collaborating with the migration teams to understand the nuances of Oracle and PostgreSQL databases, gathering insights to design effective unit tests and address migration challenges effectively.
* Contributed to the software development process by identifying and isolating bugs, collaborating closely with developers to analyze root causes and implement effective solutions.

*Visual Studio, Visual Studio Code, Google C++ Testing Framework, Virtual Box, PgAdmin 4 , SourceTree, Jira, GitHub*

**Senior Software Engineer Oct 2016 – Apr 2019**

**Bentley Systems, Islamabad, Pakistan**

I was hired as an Associate Quality Assurance Analyst at Bentley and got **promoted** to Senior Software Engineer in a mere span of 2 years.

* Created and maintained automation pipelines on Jenkins and Azure DevOps for CI/CD.
* Took the initiative of introducing Power BI to my team, which helped us successfully transition from static Excel reports to dynamic and visually compelling BI reports, elevating data insights and presentation capabilities.
* Developed numerous Python scripts automating manual workflows, substantially boosting operational efficiency, productivity, and minimizing manual labor.
* Crafted a variety of tests, encompassing unit, functional, regression, performance and scenario-based tests, to guarantee the quality and dependability of Bentley's C++ REST API.
* Expertly engaged in the end-to-end defect management lifecycle, including identification, analysis, documentation, reporting, and verification of the bugs.
* Experience in backend database testing, writing, and executing SQL queries and other database operations using SQLite.

*Python, Git, VC++, SQLite, Protractor, Git, Power BI, VSTS Rest Api’s , Jenkins, Azure DevOps, Microsoft Team Foundation Server*

**Software Engineer Jan 2016 – Oct 2016**

**Vizteck Systems , Islamabad, Pakistan**

* Implemented and executed a diverse range of tests, including Automation, Regression, Smoke, Exploratory, User Interface (UI), and User Experience (UX) testing, aimed at improving product usability and performance.
* Extensive experience in both Automated and Manual testing for desktop and mobile applications on Android and IOS platforms.
* Conducted comprehensive cross-browser testing to guarantee seamless functionality and compatibility of web applications across various web browsers.
* Proficient in conducting comprehensive backend service testing using Postman.
* Utilized JIRA for defect reporting, ensuring clear and efficient communication of identified issues. Facilitated collaborative issue resolution for enhanced project efficiency.

*AngularJS, Jira, Postman, SQL, Cucumber, Mocha, Protractor*

**Software Quality Analyst Apr 2015 – Jan 2016**

**Bentley Systems , Islamabad, Pakistan**

* Wrote unit and functional test for Bentley’s C++ API using Google Test.
* Executed SQL queries, and other database operations using SQLite.
* Strong understanding of software QA methodologies including developing, executing, and maintaining the test cases and reporting bugs.

*VC++, Git, SQLite, Google Test, Team Foundation Server, HTML, Protractor*

**Education**

**Masters in Computer Science 2014**

National University Of Modern Languages, Islamabad, Pakistan

**Certifications and Awards**

* Gold medalist and a scholarship holder for the Masters Degree(MCS)
* Merit position holder throughout both school and high school