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Description automatically generatedNagashekar Vanapalli**

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Dedicated professional with about 5 years of experience in Software Quality Assurance, automation, Python programming, API development, data processing, and inferencing in databases using SQL. Adept in software engineering and data analysis. Seeking a challenging role as a Senior Software Engineer in Test to leverage technical expertise and contribute to successful testing strategies. Skilled in developing comprehensive test strategies, executing plans, and optimizing processes. Experienced in collaborating with distributed teams and adapting to evolving client needs.

**SKILLS:**

* SQA: Test plan preparation & execution, analyzing test results, test scripts, test life cycle & SDLC (software development lifecycle).
* SQA reporting: QA documentation, technical documentation, QA review, test case
* SQA Bug: Log defects, debugging & strategizing, solution implementation and adjustments.
* Tools: Postman, GitHub, Tableau, SAP-ISU, Databricks, HP/ALM, ADO, Jira, Microsoft office suite.
* Test Automation: Robot framework using Python, API automation, UI automation.
* Programming: Python, C (parallelization), object-oriented programming, Selenium.
* Rest API development, API quality assurance, REST/JSON.
* Python libraries: NumPy, Pandas, Matplotlib, Robot framework, etc.
* AWS services: Lambda, SNS, CloudWatch, RDS, DynamoDB, Microservices architecture.
* Database Management: MY SQL, PySpark, Oracle, Stored procedures, Nosql, MongoDB.
* Non-technical: Agile, scrum and waterfall models, resource management, business requirement analysis, versatility, distributed teamwork while being able to work independently, multitasking, task prioritization.

**EXPERIENCE:**

***Takeda Pharmaceutical*, Boston, MA June, 2023 – August, 2023 Information Management & Digital Innovation – Intern**

* Manual testing of existing systems, data comparison and matching, while maintaining data security and capable to resolve software testing discrepancies, performance improvement.
* Created a report comparison tool designed for utilization across multiple cross-functional teams.
* Executed Python-based solutions to optimize and enhance existing processes, with the potential for future scalability into cloud environments or integration with other systems.
* Enhancing the workflow procedure through the automation of manual tasks, with the potential to be applied to most manual tasks conducted within the GRO division.
* Collaborated with cross-functional teams to analyze post-market data and implement analytical methods for effective decision-making.

***INFOSYS LTD*, Hyderabad, Telangana December,2017 – June,2022 Specialist Programmer**

* Quality assurance testing of developed API for financial transactions, integration testing with other systems.
* Data testing for migrated DB and test data generation covering various scenarios, execute test cases as SME in disciplined manner.
* Developed a Rest API in python using AWS lambda and deployed the same in AWS while integrating other AWS services like secrets manager, load balancer, IOT and few other services.
* Spearheaded business requirement analysis with stakeholders, being an effective orator and demonstrating strong problem-solving skills.
* Created notebooks in Databricks using PySpark, SQL and Spark to perform data cleansing on raw data and data transformation on cleansed data.
* Built a project involving data migration and data analysis using HDFS, MySQL, Hive, Spark and PySpark.
* Extensive experience in working with cloud infrastructure services, with hands-on coding experience in building cloud microservices in an agile development environment.

**Test Analyst**

* Led end-to-end automation efforts for web applications using the Robot framework in Python, ensuring comprehensive test coverage.
* Participated in project planning and execution, contributing to the development of robust applications with a focus on quality assurance and problem solving.
* Received awards and appreciation for my ability in digital experience, stakeholder management, and conflict resolution.
* Demonstrated coding and testing expertise in Selenium, REST/JSON, Swagger, and Microservices architecture.
* Skilled in testing frameworks like Robot and Pytest, ensuring robust automation for web applications.

**Test Engineer**

* Developed a python tool to automate the execution process in HP/ALM using Rest-API, which drastically reduced manual effort from 20 minutes to 15 seconds, a step towards time management.
* Conducted rigorous monitoring and testing of utility applications, ensuring the maintenance of high-quality standards for client deliverables.
* Recognized and promptly resolved potential issues, demonstrating effective collaboration with developers to validate solutions and tracking risk management report.
* Demonstrated expertise in manual and automated testing methodologies, with a focus on identifying defects and ensuring software reliability.
* Worked in an agile model project utilizing ADO, where I was decisive & calm under pressure while being performance focused.
* Provided comprehensive training to new team members, imparting knowledge on client applications and company guidelines. Played a pivotal role in fostering a culture of high-quality work and productivity within the organization.

**System Engineer**

* Receptive and resourceful at using SAP-ISU, which is a database used, in migrating to cloud.
* Proven ability to identify, document, and track software bugs, collaborating effectively with development teams for prompt issue resolution.
* Created documentation with flowcharts and stakeholder application functionalities to which I was a subject matter expert in system functionality, ensuring quality improvement in production and following through production deployment.
* Scripted fine quality test scenarios which were adaptable and agile to fit various functionalities ensuring quality and attention to detail.

**EDUCATION:**

**Master of Science in Data Science**

University Of Massachusetts at Dartmouth, USA

Relevant Course work: Machine Learning, Network Security, Data Visualization, Big Data Analytics, High Performance Scientific Computing, Database Management.

**Bachelor of Engineering in Electronics & Communication**

Visvesvaraya Technological University, India

**CERTIFICATIONS:**

* Tricentis Certified Automation Specialist Level 1
* Tricentis Certified Automation Specialist Level 2
* Infosys Certified L1 Core Tester