

# Rishi Pranay Raj Bikkumalla

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## SUMMARY

Software Development Engineer in Test with 5 years of experience architecting automation frameworks and developing test utilities for large-scale, distributed systems. Strong coding background in **C#, Python, OOP, data structures, algorithms**, and designing maintainable **test suites** using **Selenium WebDriver, REST-Assured, TestNG/NUnit, and BDD frameworks**. Proficient in validating **microservices, REST APIs, message queues**, and **data pipelines** with deep expertise in **SQL-based data verification** and **API contract testing**. Skilled in integrating automation into **CI/CD pipelines (Azure DevOps, Git)**, optimizing **test execution**, and building reusable automation libraries.

## TECHNICAL SKILLS

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- **Automation Tools:** Selenium WebDriver (C#), TestNG, NUnit, Playwright, Cypress
- **Programming Languages & Databases:** C#, Python, SQL, Gherkin, Java, SQL Server, MySQL, MongoDB, NoSQL, Bash scripting
- **API Testing:** Postman, REST-assured
- **Test Management & Collaboration:** Azure DevOps, JIRA, TestRail, Azure Boards
- **Testing Types:** Functional Testing, Regression Testing, Smoke Testing, UAT, Cross-Environment Testing
- **Development Methodologies:** Agile, Scrum, Kanban
- **CI/CD & Version Control:** Git, Azure Repos
- **Operating Systems & other tools:** Windows, Linux, Visual Studio, Postman Console, Browser Developer Tools

## PROFESSIONAL EXPERIENCE

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**Collabera, USA**

**July 2025- Present**

*QA Engineer*

- Evaluate, select, and integrate automation tools such as **Selenium, Playwright, and Cypress**, and develop scalable **C# automation frameworks** to improve test efficiency, stability, and release quality.
- Create and maintain comprehensive **test strategies, test plans, and test cases** while performing **70% automation and 30% manual testing** across UI, API, and integration layers.
- Execute and optimize automated test suites within **CI/CD pipelines**, troubleshoot failures, conduct root-cause analysis, and ensure complete coverage for new features and regression cycles.
- Collaborate with cross-functional teams in an Agile environment to refine requirements, validate functionality, and drive continuous improvements in product quality and reliability.

**Cloud IT Staffing, USA**

**Feb 2025- July 2025**

*Software Developer*

- Contributed to developing and maintaining applications using **Java, C#, JavaScript**, following coding standards, best practices, and strong foundations in **OOP, algorithms, and data structures** to build scalable components.

- Built responsive, user-centric interfaces with **HTML, CSS, JavaScript**, incorporating UX feedback and integrating **RESTful APIs** and cloud-based services to enable seamless data flow.
- Supported **SQL/NoSQL database modeling**, query optimization, and management of structured/unstructured data as part of modern application architecture.
- Participated in **unit, integration, and automated testing**, CI/CD-aligned workflows, and Agile ceremonies including sprint planning, code reviews, and solution prototyping.

**TCS, India**

**Oct 2021- June 2023**

*Test Automation Engineer*

- Designed and automated UI test scripts using **Selenium WebDriver (C#)**, created test plans and test cases, and executed **API testing with Postman**, improving overall test efficiency and coverage.
- Performed large-scale **SQL Server data validation (10M+ records)** across UAT, staging, and production, while leading **cross-environment, regression, and smoke testing** for stable releases.
- Managed test workflows using **Azure DevOps/Azure Boards**, collaborating with developers and analysts to track defects and support Agile ceremonies for high-quality, iterative delivery.
- Built end-to-end automated scenarios combining **UI and backend validations**, reducing production defects and earning multiple **Star Team Awards** for excellence.

**Techno Brains, India**

**Oct 2019- Apr 2021**

*Analyst*

- Delivered tailored QA solutions across **e-commerce, healthcare, and fintech** projects by designing and executing manual and automated test cases using **Selenium (Python/C#)** for web and mobile applications.
- Performed **API testing** with Postman and REST-Assured, led **regression, smoke, and UAT cycles**, and managed test documentation, bug tracking, and reporting through **JIRA, TestRail, and Azure DevOps**.
- Validated embedded behavior and inference outputs on **real-time camera and edge-device workflows**, ensuring accurate model performance and data consistency.
- Provided consulting on **QA best practices, automation frameworks, and CI/CD integration**, adapting quickly to new tools and delivering high-quality results under tight deadlines.

## **PROJECTS**

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### **AI Article Generation Using SEO**

- Developed an AI-powered web platform that generates SEO-optimized articles with customizable content, meta tags, entities, and AI-generated images, while supporting advanced features such as multilingual output, voice playback, PDF export, and dynamic user configuration via database-backed settings.

### **Facemask Monitoring System – Real-Time Face Mask Detection Using API and Camera Interface**

- Developed a real-time face mask detection system using OpenCV and TensorFlow (MobileNetV2) with Swagger UI, achieving 95–100% confidence and latency tracking, while enabling image/video input through a REST API with JSON outputs for automated monitoring across various host devices.

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## **EDUCATION**

Master of Science in IT, Valparaiso University

Aug 2023 – Dec 2024

*CGPA: 3.9/4.0*