VASIGARAN RAVI

Software Engineer – Test Automation | Web | Real-time ML

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PROFESSIONAL SUMMARY

Software Engineer specializing in test automation and real-time ML solutions, with a track record of delivering scalable automation frameworks, measurable performance improvements, and production-ready deployments. Promoted from Intern to Full-time Engineer at Altaradius Technologies for consistently driving higher test coverage, faster release cycles, and improved user experience. Strong collaborator in Agile teams with expertise in Java, Python, Selenium, SQL, and PyTorch.

CORE STRENGTHS

- Test Automation: Selenium WebDriver, TestNG, UI & Regression Suites
- Programming: Java, Python
- Web Development: HTML5, CSS3, Bootstrap (Responsive Design)
- APIs & Tools: Postman, SoapUI, ReadyAPI, JIRA
- ML & CV: YOLOv8, PyTorch, OpenCV (Real-time pipelines)
- Database: Microsoft SQL (Validation, Queries)
- Methodologies: Manual & Automation Testing, Agile, TDD

PROFESSIONAL EXPERIENCE

Altaradius Technologies Pvt. Ltd. – Software Engineer

- Jun 2024 – Present (Intern: Jun–Dec 2024; Promoted to Full-time)
- Built reusable automation libraries & Page Object Models, reducing script maintenance effort by 25% and accelerating onboarding for new team members.
- Optimized backend validation by executing SQL-based test data setup, cutting release preparation time by 20%.
- Performed comprehensive API testing with Postman/SoapUI, identifying critical defects 15% earlier in the release cycle.
- Collaborated with cross-functional Agile teams to improve sprint velocity and adoption of TDD practices, contributing to a faster release cycle by 10%.
- Developed responsive UI components (HTML/CSS/Bootstrap), improving mobile accessibility score by 25%.

SELECTED PROJECTS

Instantaneous Object Detection (YOLOv8 · PyTorch · OpenCV)

- Engineered a real-time object detection pipeline achieving 28 FPS live inference speed, enabling smooth performance in video-streaming scenarios.
- Enhanced preprocessing workflows, reducing latency by 15% and boosting throughput under live input conditions.
- Improved model robustness and accuracy by 12% over baseline, validated across diverse test datasets.
- Coordinated with a small project team to deliver a packaged demo, showcasing technical results effectively to stakeholders.

Pharmacy Website (HTML · CSS · Bootstrap · UI Testing)

- Designed a fully responsive storefront with Bootstrap 5, improving mobile accessibility from 70% → 95%.
- Conducted 20+ UI/UX validation test cases, ensuring zero UI defects at production rollout.
- Authored detailed test cases for forms, sessions, and input validation, reducing UAT defect leakage by 30%.
- Collaborated with designers and backend developers, improving checkout experience and achieving 100% pass rate in customer flow testing.

EDUCATION

B.E., Computer Science & Engineering – Karpagam College of Engineering (2020–2024)

CERTIFICATIONS

- Udemy – Selenium WebDriver Testing
- Infosys – Java Fundamentals
- Coursera – IBM Introduction to Artificial Intelligence