

# Jithin Vishnu R

## Software Quality Engineer

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## Summary

Seasoned Software Quality Engineer with 5+ years in the tech industry, specializing in test automation, DevOps practices, and cloud infrastructure. Proficient in CI/CD pipelines, Kubernetes, and infrastructure as code. Experienced with AWS services, container orchestration, and multiple programming languages. Skilled in implementing automated testing frameworks while maintaining GitOps workflows. Passionate about software engineering and artificial intelligence advancements.

## Skills

- Test Automation: Selenium, Playwright, Cypress
- Frameworks: Serenity, Howitzer, Robot Framework, pytest
- API Testing: Postman, Newman CLI, Rest Assured
- CI/CD: Jenkins, ArgoCD, GitOps
- Cloud Technologies: AWS, Google Workspace, Microsoft 365
- Infrastructure: Terraform, Kubernetes
- Monitoring: Datadog
- Version Control: Git
- Agile Methodologies: Scrum, Kanban
- Languages: Python, JavaScript, Java, Ruby
- AI Tools: GitHub Copilot, ChatGPT, Claude, Gemini

## Professional Experience

### Software Quality Engineer II, JumpCloud

*(May 2024 – Present)*

- Develop and maintain GitHub Actions workflows for test automation in a GitOps pipeline while managing Kubernetes resources for environment stability
- Enhance API test automation using Python (pytest) and UI tests with JavaScript (Cypress) to improve coverage
- Implement Python/Bash scripting for automation tasks and conduct code reviews to ensure best practices
- Leverage AWS services (Secrets Manager, ECR, S3) and apply infrastructure changes using Terraform during deployments
- Monitor application health using ArgoCD, Datadog, and Kubernetes while validating protobuf and gRPC changes
- Manage feature flags with Split for controlled rollouts and collaborate across teams using Slack, Jira, and Confluence

## Software Development Engineer in Test, HackerRank *(Jan 2023 - May 2024)*

- Automated UI tests using Ruby Howitzer and led transition to SerenityJS (Playwright)
- Conducted code reviews and improved team efficiency
- Built workflows integrating Slack, AWS Lambda, S3, DynamoDB, and Jenkins
- Automated complex scenarios including end-to-end candidate assessments
- Led automated regression and sanity testing
- Enhanced cross-browser compatibility using LambdaTest
- Streamlined API testing with Postman and Newman CLI
- Supported production deployments and resolved customer issues

## Tata Consultancy Services *(Aug 2020 - Dec 2022)*

### System Engineer *(Apr 2021 - Dec 2022)*

- Developed and maintained end-to-end automation package using Robot Framework/Selenium/Python
- Implemented new acceptance criteria in scripts
- Conducted API testing for headers, response, and cookies validation
- Reduced execution time of the framework by 6.6x
- Implemented multi-threaded parallel test execution, reducing regression test runtime by 4.5x
- Added data encryption for sensitive test data

### Programmer *(Feb 2021 - Mar 2021)*

- Underwent self-paced training in Robot Framework
- Gained knowledge in advanced UI automation, XPath building, and behaviour-driven testing

### Graduate Trainee *(Aug 2020 - Jan 2021)*

- Trained in various IT aspects including web development, version control, agile methodologies, and machine learning

## Education

Bachelor of Science in Computer Science, University of Kerala *(2016 - 2019)*

## Certifications

PCEP - Certified Entry-Level Python Programmer *(Certification Code: CWnF.m23j.z5OC)*

- Issued by Python Institute on November 30, 2021
- Covers basic programming concepts, data types, flow control, data collections, and functions