

Anandhu Krishnan G *Senior Lead Engineer (QA Lead)*

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📍 Trivandrum, India

📅 1996/09/04

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Professional Summary

Accomplished Senior Lead Engineer with extensive expertise in Quality Assurance (QA) leadership, specializing in test automation and software development across Java, Python, and Jekyll platforms. Demonstrates a proven track record of driving quality excellence through strategic team management, robust testing methodologies, and technical innovation. Skilled in developing comprehensive QA strategies, implementing efficient testing frameworks, and leading cross-functional teams to deliver high-performance software solutions. Combines strong technical proficiency with exceptional leadership capabilities to optimize product quality, streamline development processes, and mentor high-performing engineering teams.

Professional Experience

2022/11 – present
Trivandrum, india

Senior Lead Engineer (QA Lead)

Beagle Cyber Innovations.

- Led a team of 4 QA engineers responsible for ensuring the quality of software across multiple development projects. Through effective team management, process improvements, and a focus on proactive testing strategies, I successfully improved overall product reliability by 80% and reduced critical bug rates by 75%. This resulted in enhanced customer satisfaction and increased product stability.
- Designed and implemented comprehensive test automation frameworks utilizing Java and Python. These frameworks significantly reduced manual testing efforts by 60%, leading to accelerated release cycles and improved overall team efficiency.
- Developed and maintained robust CI/CD pipelines utilizing Jenkins and GitLab, seamlessly integrating automated testing strategies to ensure efficient and reliable software delivery.
- Conducted thorough technical reviews, code audits, and performance testing for enterprise-level web applications
- Collaborated closely with development, product management, and stakeholder teams to establish quality standards and best practices
- I spearheaded the implementation and subsequent maintenance of a comprehensive test management system utilizing TestLink for test case management and BrowserStack for cross-browser testing across all projects. This initiative streamlined testing processes, improved test coverage, and facilitated efficient bug tracking and reporting, significantly enhancing overall product quality.
- Designed and implemented comprehensive test plans based on business requirements, functional specifications, and risk assessments.
- Conducted risk-based testing by identifying high-impact areas, prioritizing test coverage, and defining mitigation strategies to reduce defects in production.

2019/07 – 2022/11
Trivandrum, india

Software Development Engineer in Test (SDET)

Beagle Cyber Innovations.

- Developed and implemented automated regression testing frameworks for Project Beagle security using Java and Selenium, and for Zeno using Python, Pytest, and Playwright. These frameworks ensured comprehensive test coverage, improved testing efficiency, and reduced manual testing efforts.
- Designed and maintained robust test frameworks for API automation using Postman, integrating regression testing with GitHub Issues and Jenkins pipelines to facilitate continuous integration and continuous deployment (CI/CD).

- Designed and implemented complex test scenarios, including functional, performance, and regression testing, for projects Beagle Security and Zeno
- Collaborate extensively with development teams to identify and resolve software defects early in the development lifecycle
- Increased test coverage from 65% to 92% through advanced automation scripts and comprehensive test case development
- Reduced regression testing time by 70% by implementing efficient automated testing frameworks
- Developed custom testing tools that improved overall testing efficiency and detected critical system vulnerabilities
- Implemented performance testing solutions that identified and resolved potential scalability issues before production deployment
- Integrated automated tests into CI/CD pipelines (Jenkins, GitHub Actions, GitLab CI/CD) to enable continuous testing.
- Collaborated with development teams to implement Shift-Left testing, improving defect detection in early development stages.

2017/12 – 2019/07
Trivandrum, India

Software Engineer

Appfabs

- Collaborated in a team-based, Agile environment to accomplish objectives by deadlines.
- Participated in performance analysis, design, development and testing.
- Familiarized with Spring Boot, RESTful APIs, JSON Microservices, J2EE, SQL, NoSQL Hibernate, JPA
- Working knowledge with bug tracking and agile project management tools like Jira, Asana, Azure Boards, Trello
- Integration with Email, Slack, Teams, Discord, Telegram, Pabbly, Webhook, Zapier
- Integration of result export to PDF, JSON, XML, CSV
- Integration with payment gateways Stripe, Razorpay
- Developed and executed comprehensive unit tests for AppShield APIs using JUnit and TestNG, covering API functionality, data validation, business logic, and error handling. Utilized an in-memory H2 database for efficient test data management. Collaborated with developers to improve code quality and testing processes.
- Spearheaded the implementation of SonarQube to elevate code quality, enforce coding standards, and streamline static code analysis processes.
- Developed and implemented mobile test automation for the Foco application using Appium and Java, ensuring efficient and reliable testing processes.
- Designed and implemented automated test frameworks for regression testing using Selenium and Java
- Conducted API testing using Postman, validating request-response integrity and performance.
- Performed end-to-end functional, regression, and performance testing, ensuring application reliability across environments for Beagle Beta
- Utilized SQL and NoSQL databases (MySQL, PostgreSQL, Cassandra) for backend data validation in test cases.

2017/05 – 2017/12
Trivandrum, india

Trainee - Java Developer

Appfabs

- Completed intensive 6-month Java development training program, gaining hands-on experience in core Java programming, object-oriented design, and software development principles
- Developed multiple practical projects demonstrating proficiency in Java fundamentals, including console applications, web services, and basic database interactions


- Participated in pair programming and code review sessions, rapidly improving coding skills and understanding of software development best practices
- Assisted in designing, executing, and documenting manual test cases for web and mobile applications.
- Performed functional, regression, and exploratory testing, identifying and reporting defects using JIRA, Bugzilla and Trello.
- Conducted API testing using Postman, verifying request-response validations and API performance.

Jekyll Developer

Beagle cyber innovations (aka Appfabs)

Developed a scalable and user-friendly blogging solution using Jekyll, enabling the marketing team to efficiently manage content with minimal technical expertise.




Implemented a static site architecture for improved performance, security, and SEO optimization. Streamlined content updates by integrating Markdown-based workflows, reducing dependency on developers and enhancing operational efficiency.

<https://beaglesecurity.com/blog/> 

Website Manager and Lead Developer

Kerala Police Cyberdome.

As a Website Manager and Lead Developer at Kerala Police Cyberdome, I developed and managed event websites for HackP and DroneKP, ensuring high performance, security, and user engagement. I implemented responsive, scalable, and secure web solutions, optimizing website infrastructure and collaborating with cybersecurity teams to enhance security measures.

- <https://hackp.kerala.gov.in/2020/> 
- <https://hackp.kerala.gov.in/> 
- <https://drone.cyberdome.kerala.gov.in/> 

Education

2014 – 2017	Diploma in Computer Engineering
Thiruvananthapuram	<i>Department of Technical Education</i>

Awards

Certificate of Appreciation

State police Kerala for Cocon 2018,2019,2020and 2021

Top Contributors

2020 , 2021 Kerala Police Cyberdome

Certificate of Appreciation

Kerala police Cyberdome Drone'kp

Skills

Development Skills



- Java
- Spring Boot
- Python
- Jekyll
- HTML
- CSS
- Javascript
- REST
- Micro service architecture

Testing Skills



- Test Planning
- Test Estimation & Risk Assessment
- Test Metrics & Reporting
- Defect Management & RCA (Root Cause Analysis)
- Agile Testing
- Shift-Left
- DataDog (APM)
- JMeter
- Burp Suite, OWASP ZAP
- Test Management (Testlink, BrowserStack, Jira)
- Bug Tracking (Jira, Asana, Azure Boards, Trello, GitHub Issues)
- SonarQube

Automation Skills



- Selenium
- Playwright
- PyTest
- TestNG
- JUnit
- Postman
- Appium
- Page Object Model (POM)

Other Skills



- Team Mentoring & Upskilling
- Stakeholder Communication & Reporting
- Cross-Team Collaboration (DevOps, Security)
- Conflict Resolution & Process Improvement
- GIT
- Docker
- Kubernetes
- CI/CD (Jenkins, GitHub Actions)

Certificates

- Mastering the Art and Science of Project Management [🔗](#)
- Kickoff Badge Predictive [🔗](#)
- Playwright with Python for Web Automation Testing + Visual [🔗](#)

- Basics of Java [🔗](#)
- kickoff Badge Agile [🔗](#)