

# RUPESH MEKALA

Software Engineer | Full-Stack & API Development | Java, Spring Boot, Docker, Kafka |  
Test Automation: Selenium & Appium  
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## SUMMARY

Detail-oriented Associate Software Engineer with **2.7 years** of experience in **Full Stack Development, API Development, and Automation Testing. Proficient in Java, Spring Boot, Web Sockets, Docker, Kafka, Selenium, Appium, Postman, and Rest Assured.** Skilled in developing and **optimizing RESTful APIs**, and testing web, mobile, and API services. Strong advocate of Agile methodologies, with a proven ability to deliver high-quality software solutions and collaborate effectively with cross-functional teams in fast-paced environments.

## PROFESSIONAL EXPERIENCE

### Fireflink Private Limited — Associate Software Engineer

June 2023 – Present | Bangalore | Onsite

#### Developer – Key Responsibilities:

- Designed, developed, and optimized **RESTful APIs** using **Java** and **Spring Boot**, improving response times by up to **30%**.
- Integrated **Kafka** for real-time messaging and event-driven architecture, enhancing system scalability.
- Implemented **Docker** containers for development and deployment, ensuring consistent environments across teams.
- Developed **end-to-end features** for web and mobile applications, collaborating closely with UI/UX teams for seamless integration.
- Conducted **code reviews**, enforced coding standards, and mentored junior developers on best practices.
- Optimized Mongo queries and database structures, resulting in improved application performance.
- Built and maintained **unit and integration tests** to ensure code quality and system reliability.
- Worked in **Agile/Scrum** environment, participating in sprint planning, daily stand-ups, and retrospectives.

#### Automation Testing – Key Responsibilities:

- Architected and built a robust **automation framework** for mobile and web applications using **Appium, Selenium, and Fireflink**, enabling scalable test automation.
- Led and managed a team** to develop and maintain **500+ automated test cases**, significantly enhancing test coverage and efficiency.
- Achieved a **40% reduction** in manual testing efforts by automating critical test scenarios across multiple platforms.
- Conducted code reviews** and raised **Pull Requests for automation scripts**, ensuring high code quality and adherence to best practices.
- Executed and monitored **Jenkins CI/CD pipelines**, diagnosing automation failures and collaborating with developers to resolve defects quickly.

### Fireflink Private Limited — Associate Software Intern

Mar 2023 – June 2023 | Bangalore | Onsite

## SKILLS SUMMARY

- |   |   |
|---|---|
| 1. <b>Programming Languages</b>             | : Java, Python(Basic)                                       |
| 1. <b>Web Technologies &amp; Frameworks</b> | : Spring Boot, RESTful APIs, Web Sockets, WebRTC, HTML, CSS |
| 2. <b>Automation Testing</b>                | : Selenium WebDriver, TestNG, Appium                        |
| 3. <b>Databases</b>                         | : MySQL, MongoDB (Basic)                                    |
| 4. <b>Automation Testing Tools</b>          | : Selenium, TestNG, Appium                                  |
| 5. <b>API Testing</b>                       | : Postman, Rest Assured                                     |

6. **Version Control & CI/CD**

:Git, GitHub, Jenkins, Docker, Kafka, Bit Bucket

7. **Defect Tracking**

:JIRA

## PROJECTS:

### 1. **Fire Cloud – Cloud-based Live Test Execution Platform** (*Cloud Infrastructure, Software Engineer, DevOps & Test Automation Domain*) **Role:** Software Developer

- Conducted R&D to build an optimized cloud setup, improving scalability, reducing latency, and lowering infrastructure costs.
- Developed live streaming functionality to monitor test executions in real-time using Web Sockets and Janus WebRTC.
- Procured and configured dedicated servers from Server Basket, setting up environments, networks, and storage for optimal performance.
- Took ownership of DevOps responsibilities, including deploying application JARs, automating deployment processes, and maintaining server health.
- Optimized infrastructure utilization, reducing operational costs by 70% while maintaining high performance and availability.

### 2. **Firelink – Script less Automation Testing Platform** (*Software Development*) **Role:** Software Developer

- Contributed to the design and development of Firelink Platform, script less automation testing platform supporting web, mobile, desktop, and API testing.
- Implemented core backend modules in Java, enhancing test execution speed and reducing platform latency by 25 %.
- Designed and implemented the Firelink Cloud integration module, enabling cloud-based test orchestration and execution capabilities within the platform.
- Built modular, scalable features enabling seamless integration with tools like Jira, BrowserStack.
- Collaborated with cross-functional teams to improve framework architecture, ensuring maintainability and high performance under large-scale test loads.

### 3. **Pantaloons E-Commerce Web Application** (*E-Commerce Domain*) **Role:** Automation Test Engineer / Team Lead

- Led a team of 6 members (in building a robust automation testing framework from scratch using Selenium WebDriver, TestNG, and Maven).
- Designed and executed 100+ test cases for functional, integration, and regression testing, achieving 90% automation coverage.
- Integrated BrowserStack for cross-browser testing, ensuring seamless UI consistency across major browsers and devices.
- Established best practices for test case design, code reviews, and defect reporting, improving defect detection rate by 60%.

## EDUCATION:

Graduated with a **B.Tech from Siddhartha Institute of Engineering and Technology**, Andhra Pradesh.  
**Graduated in 2023 | CGPA: 8.76**

## Additional Details:

- **Gender:** MALE
- **Date of Birth:** 27-04-2002
- **Languages:** English, Telugu, Kannada, Tamil, Hindi.

## DECLARATION:

I hereby declare that all the information given above is true to the best of my knowledge and belief.