

# 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

### Firelink 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 Firelink**, 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.

### Firelink Private Limited — Associate Software Intern

Mar 2023 – June 2023 | Bangalore | Onsite

## SKILLS SUMMARY

- Programming Languages** : Java, Python(Basic)
- Web Technologies & Frameworks** : Spring Boot, RESTful APIs, Web Sockets, WebRTC, HTML, CSS
- Automation Testing** : Selenium WebDriver, TestNG, Appium
- Databases** : MySQL, MongoDB (Basic)
- Automation Testing Tools** : Selenium, TestNG, Appium
- API Testing** : 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.