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. **Programming Languages** : Java, Python(Basic)
1. **Web Technologies & Frameworks:** Spring Boot, RESTful APIs, Web Sockets, WebRTC, HTML, CSS
2. **Automation Testing** : Selenium WebDriver, TestNG, Appium
3. **Databases** : MySQL, MongoDB (Basic)
4. **Automation Testing Tools** : Selenium, TestNG, Appium
5. **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. Fireflink – Script less Automation Testing Platform *(Software Development)* **Role:** Software Developer
- Contributed to the design and development of Fireflink 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 Fireflink 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.