

# SHAIK FAYAZ

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## Professional Summary

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Results-driven SDET with 2.5+ years of experience building scalable UI and API automation frameworks using Java, Selenium, and REST-assured. Led the development of an AI-powered test automation tool leveraging LLMs for intelligent DOM interaction and test generation. Experienced in CI/CD pipeline integration, microservices testing, and backend development with Spring Boot. Passionate about quality-first engineering, AI-driven testing, and delivering seamless user experiences across web and mobile platforms.

## Education

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**National Institute of Technology Calicut, Kerala**

**July 2019 – May 2023**

*Bachelors of Technology –Electrical and Electronics Engineering*

*GPA: 8.55/10*

**Coursework: Data Structures and Algorithms, Digital Electronics, Artificial Intelligence, Network Theory**

## Technical Skills

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**Programming Languages:** Java, Python, JavaScript

**Automation Frameworks:** Selenium, REST-assured, Appium, TestNG, JUnit

**CI/CD & DevOps:** Jenkins, GitHub Actions, Docker, Maven, Git

**Backend & Databases:** Spring Boot, REST APIs, MongoDB, SQL

**Tools & Platforms:** Postman, IntelliJ IDEA, AWS (EC2, S3), Jira, Android Studio

**Currently Exploring:** Playwright, Performance Testing

## Experience

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**ENPHASE ENERGY**

**July 2023 – Present**

*Software Engineer II (SDET)*

*July 2025 – Present*

- Led the development of an AI-powered UI test automation tool (POC) that uses LLM-based DOM intelligence to auto-generate Selenium test scripts from natural language test cases, reducing test script creation time by 60%.
- Led the In-sprint Automation activities for my team of 5 people in actively automating the Newly created Critical Sanity and Regression test cases with the Sprint itself further Increasing the Regression coverage.

*Associate Software Engineer (SDET)*

*July 2023 – June 2025*

- Maintained scalable automation frameworks for UI and API testing of the Enphase mobile and web applications, reducing manual regression effort by 60%.
- Contributed to end-to-end API test suites using REST-assured and TestNG, validating 50+ REST endpoints across microservices, improving API reliability and catching critical defects pre-release.
- Collaborated with cross-functional teams to perform end-to-end, integration, and regression testing across the Enphase energy ecosystem, ensuring quality across iOS/ Android apps and backend services.

## Projects

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**AI-POWERED TEST AUTOMATION TOOL** | *Python, Selenium, AWS Bedrock, Streamlit*

- Built an intelligent test automation assistant that converts natural language test cases into executable Selenium/Playwright scripts using LLM-driven DOM analysis and element resolution.
- Implemented a multi-strategy element resolver combining heuristic matching, LLM-based DOM parsing, and vision-based fallback for robust element identification across dynamic web pages.
- Developed a Streamlit-based UI for test case management, real-time execution monitoring, and automated Java test code generation with Page Object Model structure.

**JOURNAL APPLICATION** | *Java, Spring Boot, JWT, MongoDB, Docker*

- Built a secure Spring Boot journal application with JWT authentication, MongoDB backend, and RESTful API design following microservices patterns.
- Containerized with Docker and configured CI/CD pipeline for automated testing and deployment readiness.

**EMERGENCY VEHICLE CLASSIFICATION** | *Python, TensorFlow, Deep Learning*

- Built an LSTM-based deep learning model that classifies emergency vs. non-emergency vehicles from audio input, achieving 89% accuracy on real-world siren datasets.

## Achievements

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- Secured 98.60 percentile in JEE Mains out of 1.2 million candidates
- Secured All India Rank 61 in AP EAMCET 2019
- Won first prize at zonal level in SIMO Olympiad