

Sai Nagesh Gowra Balaji

862-423-6025 | gowrabalajisainagesh@gmail.com | LinkedIn | GitHub

SKILLS

Programming Languages :: Java, Python, JavaScript, TypeScript, SQL, PL/SQL
Frameworks :: Spring Boot 3, Spring Security, Microservices, React, Node.js, Express.js, Django, Angular
Testing & QA :: Postman, JUnit, Mockito, Test Containers, TestNG, Cucumber, Selenium, SonarQube
Databases :: Oracle, SQL Server, PostgreSQL, MySQL, MongoDB, Redis, Stored Procedures
Cloud/DevOps (CI/CD) :: AWS, Docker, Kubernetes, Jenkins, Git
Other :: REST APIs, OAuth2, JWT, Amazon SQS, Apache Kafka, Prometheus, Grafana, JIRA, SDLC, Agile

WORK EXPERIENCE

Marlabs

NJ, USA

Full Stack Developer Intern

February 2025 - Present

- Developing **Spring Boot microservices** and **REST APIs** for client digital platforms, integrating with **React** frontend components to improve application architecture and user experience
- Implementing **OAuth2** and **JWT** authentication with **Spring Security** to ensure data protection and meet security compliance.
- Streamlining **CI/CD pipeline** using **GitHub Actions** and **Jenkins**, helping reduce deployment time by **40%**.
- Achieving **90% test coverage** through **unit testing** and **integration testing** using **JUnit**, **Mockito**, and **Cucumber** for comprehensive quality assurance.
- Building application **monitoring** with **Spring Boot Actuator**, **Micrometer**, and **Prometheus**, creating **Grafana** dashboards for performance tracking

GJ Systems

Chittoor, India

Software Developer

June 2021 - August 2023

- Engineered real-time analytics platform using **React.js**, **Node.js**, and **Express.js** with market data API integration, serving **500+** daily active users for precious metals trading analysis.
- Developed **Django-based ERP system** with **PostgreSQL** database, implementing modules for inventory management, accounting, and CRM with real-time data processing capabilities.
- Built automated reporting system generating Excel reports, PDF documentation, and interactive dashboards, reducing manual reporting processes by **90%**.
- Deployed applications using **Docker** containerization, achieving **99% uptime** and ensuring reliable system availability for business operations.
- Integrated **third-party payment APIs** and implemented comprehensive **error handling** and **logging mechanisms** for production monitoring and debugging.

BNY Mellon Technology

Chennai, India

Associate Software Engineer

January 2020 - May 2021

- Led **full SDLC** development of Quality Engineering Dashboard using **Spring Boot** and **REST APIs**, automating QA processes and improving defect tracking efficiency by **70%** for wealth management applications.
- Designed and implemented **Oracle** and **SQL Server** database solutions with complex queries and stored procedures, supporting real-time dashboards for **15+** internal teams with regulatory compliance reporting.
- Developed test automation framework using **Java** and **TestNG**, creating **500+ BDD test scenarios** with **Selenium** WebDriver and **Cucumber**, achieving **95% test coverage** for NetX360 platform.
- Built **22+** interactive dashboards using **JSP**, **jQuery**, **Bootstrap**, and **Chart.js** with **role-based access control**, providing visibility into quality metrics and compliance status.
- Automated **Excel** reporting using **Apache POI**, reducing manual effort by **90%** and ensuring audit-ready documentation for regulatory requirements. Implemented email notification system with **Spring Boot** and **FreeMarker** templates, improving defect response time by **75%** and enhancing team communication.
- Created script generation engine for BDD scenarios and developed **React.js + Node.js** test orchestration dashboard for workflow visualization.
- Managed **regression testing** cycles and led knowledge transfer for **5+ QA team members** transitioning to automated testing, using **JIRA** for defect tracking in the Agile environment.

EDUCATION

New Jersey Institute Of Technology (NJIT), Newark, NJ

September 2023 - December 2024

Master of Science (MS), Computer Science

CGPA : 3.850

PROJECTS

Enterprise Banking Platform | *Java, Spring Boot, PostgreSQL, Kafka, Docker*

GitHub

- Developing microservices architecture with secure transaction processing, account management, and OAuth2/JWT authentication, implementing event-driven design with Apache Kafka for financial data streaming.

TaskFlow - Enterprise Task & Project Manager | *React, Redux Toolkit, TypeScript, Node.js, PostgreSQL*

GitHub

- Building full-stack project management application with real-time collaboration features, WebSocket integration for live updates, RBAC implementation, and RESTful API backend.

AWS Image Recognition Pipeline | *Java, AWS (EC2, S3, SQS, Rekognition)*

GitHub

- Built distributed image processing system using two EC2 instances communicating via SQS queues, with S3 storage for image data and AWS Rekognition for automated image recognition and object detection capabilities.