Sai Nagesh Gowra Balaji

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EDUCATION

New Jersey Institute Of Technology (NJIT), Newark, NJ   *September 2023 - December 2024*
Master of Science (MS), Computer Science   *CGPA : 3.850*

Sree Vidyanikethan Engineering College (Aff to JNTU), Tirupathi, India   *August 2016 - May 2020*
Bachelor of Technology (B.Tech), Computer Science and Engineering   *CGPA : 8.520*

SKILLS

Programming Languages	:: Java, JavaScript, Python, PHP, C, C++
Backend Technologies	:: Spring Boot, Spring Core, Hibernate, Microservices, RESTful Web Services, Node.js, Django
Frontend Technologies	:: ReactJS, Angular, HTML, CSS, jQuery, Flutter, ElectronJS, FTL
Databases	:: Oracle DB, Microsoft SQL Server, MySQL, PostgreSQL, MongoDB, Neo4J, PL/SQL
Security	:: Spring Security, OAuth2, JWT
Cloud	:: Amazon Web Services (AWS) - EC2, S3, RDS, Lambda, GCP (Kubernetes)
AI Skills and Tools	:: Machine Learning, Deep Learning, TensorFlow, PyTorch
Testing Automation	:: JUnit, Mockito, TestNG, Cucumber, Selenium, RestAssured, Java API Testing, BDD Automation
QA Testing	:: Agile Sprints, Product life cycle, Feature/Bug fixes, Functional/Regression testing
Methodologies & Practices	:: Agile (Scrum, Kanban), SDLC (Software Development Life Cycle), CI/CD
Tools & Technologies	:: Docker, Kubernetes, Git, Jenkins, JIRA, Apache POI, XML, Regex

WORK EXPERIENCE

Marlabs | Client: Lloyds Banking Group   **NJ, USA**
Java Full Stack Developer Intern (Remote)   *February 2025 - Present*

- Architected **Spring Boot microservices** and **REST APIs** to support onboarding & transaction workflows for **10,000+** banking users.
- Applied **OAuth2** and **JWT** with **Spring Security** to safeguard sensitive financial data.
- Streamlined **CI/CD** workflows using **GitHub Actions** and **Jenkins**, reducing release time by **40%**.
- Collaborated with **cross-functional Agile** teams in **biweekly sprints**, ensuring on-time delivery of features.
- Improved backend stability by increasing **unit/integration test** coverage to **90%** using JUnit, Mockito, and Cucumber.

Energy Mashup Lab   **NJ, USA**
Java Developer (Remote)   *September 2024 - January 2025*

- Created **core Java** modules for Matching Engine and Local Market Manager to simulate decentralized energy trading.
- Engineered ledger tracking, transaction handling, and message routing **with Spring Boot**, **Maven**, and **JUnit.**
- Modeled smart grid market scenarios to simulate bid/offer matching and energy exchange via **CTS** messaging protocols.

GJ Systems   **Chittoor, India**
Software Developer   *June 2022 - August 2023*

- Implemented a **React** and **Node.js** analytics platform for real-time pricing of metals, used by **500+ users** daily.
- Connected **MongoDB** for historical **data logging** and leveraged **ARIMA** models for forecasting with **70% model accuracy**.
- Automated sales, billing, and inventory via **Django ERP** which streamlined operations and reduced manual input by **90%**.
- Deployed on **PythonAnywhere** and validated with **Docker**-based local containers..

BNY Mellon Technology   **Chennai, India**
Associate Software Engineer (Grad Dev)   *January 2020 - May 2022*

- Spearheaded the design of **Spring Boot microservices** for **QED (Quality Engineered Dashboard)** and **REST APIs** to automate **QA** lifecycle, increasing test cycle visibility and improving defect tracking efficiency by **70%**.
- Integrated **Oracle** and **SQL Server** databases to support real-time **QA** dashboards for **5+** internal financial teams.
- Introduced **RBAC** with **Spring Security** and automated alerting using **FTL emails** to reduce incident resolution times.
- Automated **Excel reporting pipelines** with **Apache POI**, reducing QA reporting time by **90%**.
- Created **FTL** based dynamic email notifications for **bug updates**, improving triage communication time by **50%**.
- Constructed a full **BDD** testing suite (**Java, TestNG, Selenium, Cucumber**), achieving **95%** test coverage across modules.
- Managed test cycles and defect tracking via **JIRA** and documented key insights on **Confluence**.
- Devised **metadata-driven test automation** with **Java** and **TestNG,** for **NetX360- COB** major client onboarding modules.
- Built **script-generation engine** to streamline **BDD** scenarios, reducing script writing effort by **75%** and connected a **React.js frontend** with **Node.js backend** for real-time test orchestration.
- Supported **UAT** testing phases and ensured production readiness across wealth and asset management workflows.