

V Suriya Ganesh

Software Engineer – Full Stack and Automation

PROFILE

- Software Engineer with 1.5 years of hands-on experience in **Full Stack development** and **automation engineering** for enterprise and banking platforms.
- Strong expertise in **Java, Spring Boot, Angular, microservices architecture, REST APIs, and backend system design.**
- Experienced in banking and payments systems including ISO 20022 messaging, SR2025 compliance, liquidity validation, and transaction processing workflows.
- Proficient in building secure, role-based applications with **API Gateway, service discovery, JWT/OAuth2 authentication, and Role-Based Access Control (RBAC).**
- Hands-on experience in automation testing and regression frameworks using **Selenium, TestNG, JIRA, and Zephyr Scale.**

CERTIFICATION

- Oracle Certified Associate, Java SE 8 Programmer
- Wipro Certified - Java Full Stack Developer
- MTA: Introduction to Programming using Javascript Certified 2021
- Programming in Java - NPTEL
- Python Basics for data science
- Oracle Certified AI Foundation Associate
- Prompt Engineering For Everyone - IBMSkillsNetwork
- Databricks Accredited Generative AI Fundamentals

EDUCATIONAL QUALIFICATION:

Bachelor of Technology – Computer Science Engineering – Sri Manakula Vinayagar Engineering College

Sep 2019 to May 2023

CGPA- 8.88

WORK EXPERIENCE:

Software Engineer - Ticking Minds Technology Solutions Pvt. Ltd, Chennai

Mar 2025 – Present

Software Debug Engineer (Trainee) - Zoho Corporation

May 2024 - Dec 2024

Full Stack Developer (Intern) - Virtusa Corporation

Jan 2023 - Aug 2023

PROJECT SUMMARY:

Project #6:

Title : Knowledge Base Application (AI-driven Requirement & DevOps Integration Platform)

Role : Software Engineer

Period: Jan 2026 – Present

Description :

An AI-driven Knowledge Base platform designed to automate requirement engineering by generating insights, validation gaps, and detailed specification documents from user inputs and referenced documents.

The system supports end-to-end workflow management, including document retrieval, specification generation, steering documents, and implementation planning.

It is integrated with Azure DevOps to enable seamless work item creation, synchronization, drift detection, and lifecycle tracking.

The platform also provides configurable search, role-based access control, and testability features to ensure accuracy, traceability, and quality of generated artifacts.

Responsibilities:

- Executed end-to-end testing across user story lifecycle (Retrieval → Insights → Validation → Specification → DevOps integration)
- Identified 50+ critical defects in document generation, state management, RBAC, and Azure DevOps integration
- Validated AI-generated artifacts ensuring accuracy, consistency, and completeness
- Performed ADO integration testing (push, pull, sync, drift detection, work item linking)
- Conducted negative and edge case testing to improve system robustness

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<p>SKILLS</p> <p>Backend Frameworks and Platforms:</p> <ul style="list-style-type: none"> • Java, Spring Boot, REST APIs. • Angular, JavaScript, HTML, CSS. • Microservices Architecture, API Gateway, Service Registry. Secure authentication using JWT, OAuth2 ,RBAC <p>Frontend Frameworks and Libraries:</p> <ul style="list-style-type: none"> • Angular, Javascript, Chart.js <p>Databases:</p> <ul style="list-style-type: none"> • MYSQL,MongoDB <p>API & Integration Tools:</p> <ul style="list-style-type: none"> • Postman, REST API's, FastAPI <p>Automation & Testing Tools:</p> <ul style="list-style-type: none"> • Selenium, TestNG, BDD Cucumber <p>Test Management & Tracking:</p> <ul style="list-style-type: none"> • JIRA, Zephyr Scale, Azure DevOps <p>Payments & Messaging Platforms:</p> <ul style="list-style-type: none"> • SWIFT, ISO 20022 MX,MT Message Systems. <p>AI & NLP Frameworks:</p> <ul style="list-style-type: none"> • Langchain, ChromaDB <p>Embedding Models & Processing:</p> <ul style="list-style-type: none"> • all-MiniLM-L6, Numpy <p>Diagramming & Documentation:</p> <ul style="list-style-type: none"> • draw.io <p>Chatbot & Platform Tools:</p> <ul style="list-style-type: none"> • Zoho Cliq Platform <p>Version Control:</p> <ul style="list-style-type: none"> • Git, Github, GitLab 	<ul style="list-style-type: none"> • Verified workflow transitions (Draft, Completed, Drift) and asynchronous processing behavior • Performed UI/UX and data validation including persistence, caching, and formatting issues • Collaborated with cross-functional teams for defect analysis and system improvements <p>Project #5: Title : T-Sigma.ai Role : Software Engineer Period: Mar 2026 – Mar 2026 Description : An AI-powered platform designed to generate test scenarios, manage test automation assets, perform impact analysis, and maintain a centralized knowledge base for improved software quality and decision-making. The system enables intelligent test scenario creation and validation, ensuring high-quality, non-duplicated outputs and supporting efficient testing lifecycle management.</p> <p>Responsibilities:</p> <ul style="list-style-type: none"> • Performed end-to-end functional testing of T-Sigma.ai across core modules including test scenario generation, ATS generation, impact analysis, and knowledge base integration • Designed and executed comprehensive test scenarios and test cases covering positive, negative, and edge cases to ensure accuracy of AI-generated outputs • Validated system behavior to eliminate duplication and inconsistencies in generated test artifacts • Identified, documented, and tracked defects across UI, workflows, and system validation layers • Improved overall product quality by collaborating with development teams on issue analysis and resolution • Ensured smooth user experience through continuous validation of functional flows and system reliability <p>Project #4: Title: Payments Modernization & Compliance Platform Client: BNY (Bank of New York Mellon) Role: Quality Engineer Period: Aug 2025 – Dec 2025 Description: Enterprise banking transformation initiatives supporting global payments modernization, regulatory compliance (SR2025), liquidity validation, and messaging systems for a Tier-1 banking client. Responsibilities: Payments & Banking Engineering Responsibilities</p>
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Github:

<https://github.com/SuriyaG894>

- Worked on SWIFT SR2025 compliance initiatives for TARGET2 (T2) and CHAPS payment schemes.
- Designed, authored, and validated ISO 20022 MX messages including pacs.008, pacs.009, and pacs.009 COV.
- Implemented automation scripts for Liquidity Management (LQM) business rule validation including balance checks and limits.
- Validated clearing and settlement flows to ensure accurate end-to-end transaction processing.
- Supported UPP Pre-Message Receipt (MT & MX) validation for message routing and delivery acknowledgements.
- Executed regression testing for Customer Enquiry (CIA) module to validate enquiry workflows and transaction tracing.

Automation, Testing & Compliance Responsibilities

- Designed automation frameworks for LQM validation and regression testing.
- Executed automated regression cycles and published execution reports in JIRA using Zephyr Scale.
- Performed functional and regression testing for payments processing, messaging, and enquiry systems.
- Maintained structured test execution and defect reports for audit traceability and release sign-off.

Project #3:

Title: Vista Flow – HRMS Leave Management Platform

Client: Tickingminds

Role: Software Engineering

Period: Mar 2025 – Aug 2025

Description:

Enterprise HRMS platform modernization initiative focused on building a scalable, secure, and role-based Leave Management System using microservice architecture.

Responsibilities:**Backend & Microservices Engineering Responsibilities:**

- Designed and developed a scalable Leave Management System using microservice-based architecture with Spring Boot.
- Implemented independent backend services for leave application, approval workflows, balance management, and entitlement calculation.
- Built secure RESTful APIs and optimized MySQL schemas for employee leave records and approval history.
- Integrated API Gateway for centralized routing and implemented Service Registry for dynamic service discovery.
- Developed Authentication Service using JWT and OAuth2 and implemented Role-Based Access Control (RBAC).

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Frontend & System Integration Responsibilities:

- Developed Angular UI components for leave application, approval dashboards, and leave tracking.
- Delivered seamless backend–frontend integration by resolving CORS, validation, and cross-service workflow issues.
- Implemented business validation rules including leave eligibility, date validations, leave type restrictions, and balance checks.

Project #2:

Title: Internal Product Platforms & Automation Solutions

Client: Zoho Corporation

Role: Trainee (Software Debug Engineer)

Period: May 2024 – Dec 2024

Description:

Product engineering initiative focused on building internal platforms and automation solutions to improve build lifecycle management, audit tracking, reporting, and support operations.

Responsibilities:

- Designed and developed a web-based Build Management System using JSP, Servlets, JavaScript, and SQL database.
- Implemented secure user authentication with session management and role-based access control.
- Built dashboards enabling users to add builds, perform CRUD operations, and track build history with audit logging.
- Developed weekly and monthly reporting dashboards using interactive charts with Charts.js.
- Designed and tested the platform using Selenium and TestNG for functional and regression validation.
- Designed and deployed a chatbot on Zoho Cliq platform to automate support queries and issue escalation.
- Implemented keyword detection and custom slash commands to capture structured issue details and route them to support channels in real time.

Project #1:

Title: Fitness Tracking Application

Client: Virtusa Corporation

Role: Full Stack Developer

Period: Jan 2023 – Aug 2023

Description:

A full-stack fitness tracking platform that enables users to manage workouts, track activities, and monitor fitness progress through an intuitive web-based interface. Built using Spring Boot and Angular with secure REST APIs and a MySQL backend to ensure scalability,

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	<p>performance, and data integrity.</p> <p>Responsibilities:</p> <ul style="list-style-type: none">• Developed a full-stack fitness tracking application using Spring Boot and Angular to manage user profiles, workouts, and activity history.• Built secure RESTful APIs with JWT-based authentication and designed optimized MySQL schemas for high data integrity.• Developed responsive UI dashboards and integrated frontend with backend services for a seamless user experience.
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