

Niranjan Saravanakumar

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Education

K S Rangasamy College of Technology	2023 – 2027
Bachelor of Technology in Information Technology	CGPA: 8.63 / 10.0
Shri Janani Matric Higher Secondary School	2022 – 2023
Higher Secondary Education	Percentage: 89%

Experience

ABB Global Industries and Services Private Limited	August 2025 – May 2026
Software Engineering Intern	Bangalore, India
- Increased automated test coverage by 80% by authoring 300+ unit and integration tests and building Playwright UI automation using Python, Codegen, Chromium, PyTest, Angular, TypeScript, JavaScript, Jasmine, Karma, and C#. - Cut release validation time by 45% by redesigning testing workflows around Docker containers and Azure DevOps CI/CD pipelines. - Reduced critical code issues by 70% by triaging and resolving 50+ SonarQube vulnerabilities across UI and API codebases written in JavaScript, TypeScript, and C#. - Partnered with an 8-person cross-functional team of developers and QA engineers to align testing standards and streamline deployment workflows, reducing review cycle friction.	

Projects

CodeCompass Python, FastAPI, JavaScript, React, Groq LLaMA 3.3
- Built a Python backend with FastAPI that fetches repository files via the GitHub API and uses Groq LLaMA 3.3 to auto-generate structured onboarding docs. - Implemented stateful multi-turn chat with Pydantic-validated routes and 24-hour caching, turning any public GitHub repo into a queryable knowledge base. - Developed a React 19 + Vite 8 JavaScript frontend with a phase-based state machine, a custom drag-to-resize panel built with native DOM events, and a theming hook supporting localStorage persistence and OS-level preference detection.
EventSphere Java, Spring Boot, JavaScript, React, MySQL
- Built a full-stack event management platform with a Java/Spring Boot REST API and a JavaScript-based React SPA, supporting three role-based dashboards (Admin, Organizer, Attendee). - Implemented stateless JWT authentication with Spring Security in Java, enforcing role-based access control across 10+ REST endpoints for events, tickets, and user management. - Engineered a QR-code ticketing system using ZXing for event check-in, backed by Spring Data JPA/Hibernate and MySQL for persistent data storage.

Technical Skills

Programming Languages: Java, Python, JavaScript
Frameworks & Libraries: React.js, FastAPI, Spring Boot, Jasmine, Karma
DevOps & Cloud: Azure DevOps, GitHub Actions, CI/CD Pipelines
Tools & Platforms: Git, VS Code, Visual Studio, SonarQube
Databases: MySQL

Certifications

Oracle Certified Foundations Associate – Oracle University
Design & Implementation of Human-Computer Interfaces – NPTEL Online

Achievements

- Participated in the ABB Hackathon 2025, collaborating in a cross-functional team to design and prototype an innovative software solution.
- Solved 300+ LeetCode problems, strengthening problem-solving skills in Data Structures and Algorithms using Java.