

Mr. GURUSHANTHA R G

Dynamic Software Developer | Expertise in Backend Development, Web & App Design | Skilled in Cutting-Edge Technologies

📍 Bengaluru | 📞 +91 9538227415 | ✉ guru22ca@gmail.com | 📁 Portfolio | 📅 | DOB : 20-11-2001 | 🔗 LinkedIn | 🏠 Github

Summary

Versatile Software Engineer with expertise in full-stack development, data engineering, and mobile app development. Proven ability to adapt to new technologies and challenges, delivering high-quality solutions across diverse projects. A strong team player with excellent communication and problem-solving skills.

Skills

Languages	Frameworks	Web Development
Java, Python, C (Familiar), TypeScript, Dart	Spring Boot, Node.js, Microservices, Flask, React.js, Next.js, Angular, Flutter	HTML, CSS, JavaScript
Databases	Cloud & Big Data Technologies	Containerization & Orchestration
MySQL, MongoDB, PostgreSQL	AWS, Azure, Hadoop, HBase, NiFi, Kafka, Spark,Hive, Trino	Docker, Kubernetes

Work Experience

SUBEX	September 2023 - Present / February 2023 – July 2023
Senior Software Engineer(Oct 2024-Present) / Software Engineer (Sept 2023-Oct 2024)/ Intern (Feb 2023 - jul 2023)	Bengaluru

- Designed high-performance data pipelines using **NiFi**, **Java**, and **Spring Boot**, increasing daily processing volume from **2B to 10B records**.
- Reduced **NiFi deployment times** from **3 hours to 16 minutes** and optimized **Kafka** message processing from seconds to **nanoseconds**.
- Developed **ETL telemetry modules** to enhance system performance and monitoring capabilities.
- Implemented and optimized **Spark Structured Streaming** and batch processing using **RocksDB** and **HDFS** as state stores, reducing memory usage from **50 GB RSS to 5 GB RSS** while maintaining throughput.
- Built a **real-time analytics pipeline** using Spark Structured Streaming for **live data rule processing**, improving latency and efficiency.
- Developed a **Trino-based data copy framework** that replaced the legacy Spark copy job, reducing processing time from **3 hours to under 1 minute** and cutting resource usage from **120 cores to 30 cores** while handling **billions of records**.
- Developed a **custom NiFi processor (hs-etl)** that powers the **entire ETL pipeline**, performing end-to-end data transformation including filtering, mapping, caching, column derivations, and function-based evaluations. The processor is **dynamically constructed on the fly** by an algorithm that merges multiple logical nodes into a single executable structure, while still allowing users to configure and visualize individual nodes for flexibility. This innovation reduced **thread usage from 108 to 1**, cut **JVM usage by 90%**, and decreased **I/O overhead by over 95%**, transforming multi-node pipelines into a **single adaptive, high-performance processor**.

Mercedes-Benz	August 2023- September 2023
GET (Graduate Engineer Trainee)	Bangalore
<ul style="list-style-type: none">Graduate Engineer Trainee at Mercedes-Benz, gaining hands-on experience in full-stack development with React.js and Node.js during a focused tenure in Bangalore (August 2023 - September 2023)	

Trando	September 2022 - January 2023
Software Engineer Intern	Remote
<ul style="list-style-type: none">Developed an educational app for competitive exams with live streaming, tests, and courses, integrating Agora SDK for real-time communication.Built a scalable backend using Express/Node.js and MongoDB, collaborating effectively in a team environment.	

International Work Experience

Dubai, UAE	September 2023
Subex Onsite Collaboration with Client Company	Dubai
<ul style="list-style-type: none">Worked onsite in Dubai to develop and deploy a critical project in collaboration with a client company.Showcased technical expertise, adaptability, and effective communication in a cross-cultural, client-facing environment.	

Education

SJB Institute of Technology	July 2020-June 2023
Information Science	Bachelor of Engineering
8.9 CGPA	

Projects	
Arogya Seva	August 2022
🔗 https://github.com/GurushanthGowdar/AROGYA_SEVA_	
Built a web application for healthcare services using Flask, Python, HTML5, CSS3, and MySQL	
Dice App	June 2023
🔗 https://github.com/GurushanthGowdar/Flutter_DiceApp	
Created a mobile dice game using Flutter and Dart. Implemented a user-friendly interface with interactive animations.Gained hands-on experience in mobile app development using the Flutter framework	

UPSC Education Application	September 2022 - January 2023
<ul style="list-style-type: none">Designed a UPSC preparation platform featuring real-time class streaming via Agora SDK.Implemented a robust backend with Node.js, Express.js, and MongoDB to ensure scalability and efficient data management.	

Awards

Rookie of the Year
Recognized for exceptional performance and awarded "Rookie of the Year" at Subex's Annual Event 2024, highlighting significant contributions and rapid professional growth within the company

Tech Titans
Recognized for exceptional technical expertise and innovative contributions, awarded 'Tech Titans' at Subex's Annual Event 2024