

SHRIHARI M R

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PROFESSIONAL SUMMARY

Software Engineer with 3+ years of experience in developing high-performance enterprise applications using Java, Golang, and modern cloud technologies.

TECHNICAL SKILLS

Languages	Java, Golang, C, Assembly, Bash
Frameworks	Spring Boot, GraphQL, Spring WebFlux, Micronaut, Reactor, Jakarta EE
Databases	Redis (RediSearch, RediJSON), MongoDB, MySQL, SQL Server
Cloud & DevOps	AWS, Google Cloud, Azure, Docker, Nginx, GlassFish
ML/AI	CNN, Machine Learning, Python for Statistics
Others	CPU Profiling, Benchmarking, Performance Optimization

PROFESSIONAL EXPERIENCE

Software Engineer

July 2022 - Present

ThoughtClan Technologies, Bengaluru

- **Yanthra MES (January 2025 - Present)**

Tech Stack: Java, GraphQL, Spring Boot, Activiti Engine, MongoDB, MySQL

- Conducted a proof of concept (POC) using GraphQL to dynamically fetch data for a flexible generic Dashboard API, demonstrating the feasibility of updating the GraphQL schema at runtime.
- Implemented a generic REST client with a circuit breaker to enhance reliability, fault tolerance, and resilience in external API communications.
- Translated a scheduling algorithm into an optimized code implementation for machine allocation, utilizing suitable data structures to improve efficiency, resource utilization, and production workflows.
- Developing highly flexible configuration-based Listing APIs that dynamically bind REST API requests to MongoDB queries, enabling adaptable and efficient data retrieval.
- Initiated work on Activiti to implement workflow management, enhancing process automation and orchestration within the MES platform.

- **Nasdaq Nordic OMX - Non-Regulatory (April 2024 - December 2024)**

Tech Stack: Go, C/C++, Assembly, Redis (RediSearch, RediJSON), SQL Server

- Architected a dynamic API layer achieving O(1) lookup performance using Redis and SQL Server.
- Implemented JSON-based configuration system for flexible query generation and data retrieval.
- Optimized application through CPU profiling and assembly-level analysis.
- Identified and contributed to fixing a critical RediSearch sorting bug.

- **Nasdaq Nordic OMX - Regulatory (November 2023 - March 2024)**

Tech Stack: Java, Spring WebFlux, Redis, Bash

- Engineered reactive system processing 500M+ daily transactions (40-50K TPS).
- Implemented Redis Master-Replica failover system with ACL security.
- Developed flexible transaction workflow management system.
- Created automated Redis backup solutions using Bash.

- **Volza (December 2022 - October 2023)**

Tech Stack: Java (Micronaut, Reactor), MongoDB, Azure AD B2C, Azure Service Bus

- Implemented custom Azure AD B2C policies for complex authentication flows.
- Built high-throughput authorization and user services using reactive programming.
- Designed service communication using Azure Service Bus.
- Configured Azure API Gateway with custom routing policies.

- **Connectsu (October 2022 - December 2022)**

Tech Stack: Java Spring Boot, MySQL, Firebase, Azure BlobStorage, Nginx

- Designed and implemented core database schema and security dependencies.
- Integrated Firebase Authentication for secure user management.
- Implemented Azure BlobStorage for managing digital assets.
- Deployed application using Docker with Nginx reverse proxy and SSL support.

- **Matatini (September 2022 - February 2023)**

Tech Stack: Java Spring Boot, Nginx, Bash

- Delivered backend support for the annual Haka events scoring application.
- Devised automated deployment scripts using Bash.
- Leveraged Nginx with SSL for secure application delivery.

- **JSW Scrap Management (September 2022)**

Tech Stack: Nginx, Bash, Azure VM

- Set up CAPA and Scrap Management applications on an Azure VM.
- Configured Nginx to serve both frontend and backend with SSL support.
- Composed maintainable Bash scripts to streamline deployments.

- **Orient Cement (July 2022 – November 2022)**

Tech Stack: Java Spring Framework, MySQL, Firebase, Azure Cloud, Nginx, Bash

- Orchestrated a comprehensive backend system for tracking rack deliveries and computing Wharfage/Demurrage fees.
- Devised a normalized database schema in adherence to Codd's rules.
- Enabled user authentication through Firebase for secure access management.
- Released the application on Azure VM with an Nginx setup and SSL encryption.
- Collaborated directly with clients for requirement gathering and timely deliverables.

PUBLICATIONS & PRESENTATIONS

- Published "*Disease Detection in Plants and Live-Stocks using Machine Learning Techniques*" in Journal of Data Acquisition and Processing (Scopus-indexed).
- Presented research at the 5th National Conference on Networking, Embedded, and Wireless Systems (October 2022).
- Delivered a technical seminar on Java Technologies in Space Exploration.

INTERNSHIP

Research Intern

August 2021 - December 2021

ISSDC, ISTRAC, ISRO, Bengaluru

- Developed a prototype of a secure chat-based messaging system for the Aditya-L1 mission proposal management.
- Implemented secure communication channels between proposers and reviewers using Jakarta EE.
- Built an archiving functionality for proposal management using GlassFish server and JavaServer Faces.

Intern

May 2021 - August 2021

ParvaM

- Mastered core concepts of PHP for server-side web development.
- Explored advanced features and optimization techniques of MySQL for relational databases.

ACADEMIC PROJECTS

Disease Detection in Plants and Livestock Using ML

6-Month Project — Team Lead

Tech Stack: Python, CNN, AWS Cloud

- Architected a full-stack application for detecting diseases in crops and poultry using CNN.
- Led technology stack selection and conducted research on CNN implementation.
- Developed backend services and deployed the application on AWS Cloud.
- Implemented a real-time notification system for disease outbreak alerts.

Furniture Shopping System

1-Month Project — Database Architect

Tech Stack: Java, MySQL

- Designed and implemented a complete database schema for an e-commerce platform.
- Developed a GUI application using Java for furniture showcase and order management.
- Integrated multiple payment methods for order processing.

CERTIFICATIONS

- [AWS Fundamentals: Migrating to the Cloud \(Coursera\)](#)
- [AWS Cloud Technical Essentials \(Coursera\)](#)
- [AWS Fundamentals: Addressing Security Risk \(Coursera\)](#)
- [Statistics with Python Specialization \(Coursera\)](#)
- [Fitting Statistical Models to Data with Python \(Coursera\)](#)
- [Inferential Statistical Analysis with Python \(Coursera\)](#)
- [Introduction to Big Data \(Coursera\)](#)

EDUCATION

M. S. Ramaiah University of Applied Sciences, Bengaluru

2018 - 2022

Bachelor of Technology (B.Tech) in Computer Science and Engineering

CGPA: 9.23