Ganesh Mane

Java Full Stack Developer | Spring Boot | React

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Summary

Final-year IT student with hands-on experience in building and deploying 5+ production-ready **full-stack** web apps using Java Spring Boot and React. **Top 1% on GFG(institute) with 700+ solved DSA problems**. Proficient in **Microservices, Docker, JWT, and AWS**. Seeking entry-level *backend/full-stack* role to deliver scalable software. Combines a strong foundation in *Data Structures and Algorithms* with hands-on experience in Microservices and AWS cloud technologies to develop robust, high-performance software solutions.

Education

Shri Guru Gobind Singhji Institute of Engineering and Technology	**Nanded, Maharashtra**
Bachelor of Technology in Information Technology (CGPA: 8.15/10.0)	*Sep 2023 – Present*
Government Polytechnic Pune	**Pune, Maharashtra**
Diploma in Computer Engineering (Percentage: 90.33%)	*Jan 2021 – May 2023*
State Secondary Board	**Aurangabad-Division, Maharashtra**
SSC (Percentage: 95.60%)	*Jan 2019 – Aug 2020*

Technical Skills

Languages: Java, Python, C, C++, JavaScript, SQL, HTML/CSS
Frameworks & Libraries: Spring Boot, Spring Framework, React, Node.js, Express.js, Socket.IO
Databases: MySQL, PostgreSQL, Redis, MongoDB
Developer Tools & Platforms: Git, GitHub, Docker, Kafka, Windows, Linux, VS Code, Eclipse, Wireshark, Nmap
Concepts: Operating System, REST APIs, System Design, Data Structures, OOP, Microservices, Algorithms, Computer Networks

Projects

- **Full-Stack Retail Point-of-Sale (POS) System**
  GitHub | Live Demo
  Tech Stack: *Spring Boot, Spring Security, JWT, JPA, React.js, MySQL, Razorpay*

  - Engineered a secure, **multi-tenant authentication system** using Spring Security and JWT, enforcing strict Role-Based Access Control (RBAC) to protect sensitive financial data and isolate user-specific functionalities.

  - Implemented **Spring Security** for robust access control and secure endpoint protection.

  - Enhanced user registration security by implementing a **dual-channel OTP verification system** for both email and mobile, mitigating fraudulent sign-ups.

  - Secured **15+ RESTful API** endpoints using JWT and method-level security configurations in Spring Security.

  - Orchestrated a seamless and secure transaction workflow by integrating the **Razorpay payment gateway**, enabling real-time payment processing and automated invoice generation to enhance user trust and business efficiency.

  - Containerized the full-stack application using **Docker** and deployed it to a cloud platform (e.g., Render, Railway, AWS), ensuring a scalable and publicly accessible production environment.

  - Architected a dynamic analytics dashboard with React, providing **real-time visualization** of key business metrics. This feature empowers administrators to make data-driven decisions on inventory management and sales strategy.

  - Managed **100+** billing records and built a responsive **React** UI for seamless user experience.

- **Real-Time Messaging Application with Generative AI**
  GitHub
  Tech Stack: MERN Stack, Google Gemini API, Redis, Socket.IO

  - Integrated Google's **Gemini Pro API** to build an intelligent conversational agent, enabling dynamic, context-aware, and human-like responses to user queries..

  - Architected a real-time messaging pipeline using **Socket.IO**, establishing a persistent, low-latency bidirectional connection that allows for instantaneous event-based communication between multiple clients and the server.

  - Optimized application performance by implementing **Redis** for high-throughput session management and message caching, achieving a **40%** reduction in retrieval latency and enhancing system scalability.

  - Designed and developed a decoupled, full-stack application using the **MERN stack (MongoDB, Express.js, React, Node.js)**, ensuring a clean separation of concerns between the client-side interface and the backend API.

EXPERIENCE

C-DAC (Centre for Development of Advanced Computing) **Remote**
Cyber Security Intern *Dec 2024 – Feb 2025*

  * Analyzed network traffic and system architecture using tools like **Wireshark and Nmap** to identify and document critical security vulnerabilities, demonstrating strong analytical and system-level problem-solving skills.

  * Engineered a real-time **Intrusion Detection System (IDS)** by configuring Snort and authoring custom rules to monitor and log anomalous network activity, showcasing the ability to implement and manage complex, rule-based systems.

  * Developed custom security scripts (e.g., **keyloggers** in Java) and leveraged the Metasploit framework to perform penetration testing, demonstrating practical scripting skills and a deep understanding of application-layer vulnerabilities.

  * **Certificate:** View Credential

CERTIFICATIONS & WORKSHOPS

- **Wireless Security Bootcamp** – IIT Hyderabad
  Topics: WiFi attacks, WPA2 cracking, Aircrack-ng tools, hands-on workshops

- **Java Programming Essentials** – Infosys Springboard
  Core Java, OOP concepts, exception handling, file I/O

- **Relational Database Fundamentals** – IBM
  SQL queries, schema design, keys, joins, data types, constraints

- **All Certificates and Details**: Google Drive Folder

COMPETITIVE PROGRAMMING PROFILES

GeeksforGeeks: Top 1%, 700+ DSA problems gfg/mane_
HackerRank: 5 star in Java DSA hackerrank/mane_ganesh_pc
LeetCode: 200+ problems solved leetcode/mane_ganeshh