

Santheesh A

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Profile Summary

- Software Engineer with 3 years of experience in designing and developing scalable, high-performance applications using Java, Spring Boot, ReactJS, and microservices architecture.
- Passionate about problem-solving, system design, and writing clean, maintainable, and testable code following best practices and SOLID principles.
- Skilled in applying data structures and algorithms to address real-world challenges with a focus on efficiency, scalability, and performance.
- Eager to contribute to a fast-paced, high-impact product team that values innovation, continuous learning, and engineering excellence.

Education

KPR Institute Of Engineering Technology
BE in Computer Science and Engineering - CGPA: 8.1/10

Aug 2018 – May 2022

Technologies

Programming Languages: Java, Python, JavaScript

Web libraries: React.js, TailwindCSS

Framework: Spring Boot, Node.js, Express.js

Databases: PostgreSQL, MySQL, MongoDB, Redis

Architecture: Microservices, REST APIs

Messaging & Streaming: Apache Kafka

DevOps & Tools: Git, Docker & Kubernetes

Cloud & Platforms: AWS, GitHub, Linux

Experience

Member Technical Staff, Zoho – Coimbatore, TN

May 2022 - Present

- Engineered a distributed notification system supporting **SMS, browser pop-ups, and email notifications**, using **Kafka for asynchronous event handling** and **Redis for temporary data storage** and delivery optimization.
- Supported **cross-product integration by exposing configurable endpoints** and worked closely with **API** and **DevOps** teams to ensure seamless deployment.
- Designed and implemented scalable microservices in Java (Spring Boot) to **manage diverse API traffic** types including **REST API, Graph API** and **with support rate limiting**, and custom response handling.
- Ensured consistent **API consumption across internal** and third-party clients by designing reusable modules and enforcing interface contracts.
- Led the design and implementation of a **bulk data processing pipeline to index large datasets into Elasticsearch**, enhancing internal search engine performance.
- Focused on scalable **indexing strategies, optimized mappings, and efficient querying techniques to achieve low-latency** search across thousands of records.
- Partnered with the QA team to **develop and write automation scripts** for integration applications, ensuring high-quality standards and optimal performance.

Project Trainee, Zoho Internship – Coimbatore, TN

April 2022 – May 2022

- Developed a ticket booking app using **Java, JSP, jQuery, and MySQL with JAAS authentication**.
- Ensured high availability by handling **bulk data using PostgreSQL Multi-Master Replication**, following clean code and best practices.

Projects

UPI Expense Tracker AI

- Built an AI-driven expense management platform using **ReactJS**, **Spring Boot microservices**, **Kafka**, **Redis**, and **Elasticsearch**; deployed on **AWS EC2 with Docker & Kubernetes**, secured via **OAuth2/JWT**, enabling real-time UPI transaction classification and insights.

AI ChatPDF

- Developed an AI-powered PDF Q&A tool using **React.js**, **Next.js**, and **OpenAI API**. Implemented semantic search with **PineconeDB for context-aware retrieval**, and integrated **AWS S3 for secure PDF storage**.
- Enabled users to **query uploaded documents in natural language** with GPT-based responses.

Relevant Coursework

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|------------------------------|-----------------------|-------------------------------|
| • Agile Project Management | • Distributed Systems | • Spring Boot & Microservices |
| • MERN Stack Web Development | • Docker & Kubernetes | • React Native |