Santheesh Arumugam

santheeh16@gmail.com | 959-751-6993 | github.com/santheesh16 | linkedin.com/in/santheesh16
santheesh.live

Profile Summary

- Full Stack Developer with 3 years of experience 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   Aug 2018 – May 2022
BE in Computer Science and Engineering - CGPA: 8.1/10

Technologies

Languages: Java, Python, JavaScript, TypeScript, SQL

Developer Tools: Git, Docker, Kubernetes, GitHub, Linux, Apache Kafka

Technologies/Frameworks: Spring Boot, React.js, TailwindCSS, Next.js, MySQL, MongoDB, Redis, Microservices, REST APIs, AWS

Experience

Member Technical Staff, Zoho - Coimbatore, TN   May 2022 - Present

- Engineered a distributed notification system handling **SMS, browser pop-ups**, and **email notifications** using **Kafka** for asynchronous event processing and **Redis** for temporary data storage, reducing delivery latency by **45%** and improving reliability to **80%**.
- Developed scalable microservices in **Java** to manage diverse API traffic (**REST, Graph API**), incorporating **rate-limiting and custom response modules**, improving request handling efficiency by **60%**.
- Standardized API consumption for internal and external clients by designing **reusable modules** and enforcing strict **interface contracts**, reducing integration errors by **30%**.
- Designed and implemented a high-throughput data pipeline to **bulk index large datasets into Elasticsearch**, boosting internal search performance and enabling real-time query support.
- Enabled **cross-product integration** by building configurable endpoints and managing **CI/CD deployment pipelines**, reducing deployment failures by **60%** and doubling release frequency.

Project Trainee, Zoho Internship – Coimbatore, TN   April 2022 – May 2022

- Developed a ticket booking application using **Java, JSP, jQuery**, and **MySQL** with **JAAS-based authentication**, ensuring secure and role-based access.
- Implemented a **booking queue management system** to handle concurrent ticket requests, reducing booking conflicts and improving transaction reliability under peak loads.
- Ensured high availability by managing **bulk data through PostgreSQL Multi-Master Replication**, while following clean code principles and design 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.