Santheesh Arumugam

Coimbatore | +91-7904188021 | [Linkedin](#) | [Github](#) | [Leetcode](#) | [My Portfolio](#) | santheesh62@gmail.com

SKILLS

- Java, Python, Javascript, React, MVC, Next.JS, Spring Boot, MySQL, Microservices, AWS, Git, REST API, postman, CI/CD, SQL, Docker, Kubernetes, PostgreSQL, MERN, GitHub, Elastic Search, MongoDB, Node.js

EXPERIENCE

Member Technical Staff   Jun 2022 - Present
Zoho Corporation

- Engineered a distributed notification system supporting SMS, browser pop-ups, and email using **Kafka** and **Redis**, reducing delivery **latency by 45%** and improving **reliability to 80%**, demonstrating strong expertise in **data structures and algorithms**.
- Integrated enterprise apps with **Single Sign-On** (SAML, OAuth/OIDC), **User Provisioning** (SCIM), and **Access Management** (Graph/REST APIs), contributing to a **$20K revenue** stream from high-value customers.
- Enhanced the core integration framework to **support dynamic**, **application-specific** configurations for seamless **third-party integrations**.
- Developed scalable **Java microservices** with rate limiting and custom response modules, boosting **request efficiency by 60%**, validating APIs with **Postman.**
- Led IAM operations, cutting **access provisioning time by 30%** and enhancing security **across 10+ interconnected** applications.
- Implemented **Java microservices** applying **SOLID principles for low-level design**, delivering clean, maintainable, and scalable solutions for **API rate limiting** across interconnected applications.
- Managed a file handling system with **Redis Server**, reducing **latency by 20%** and saving **5% in cloud database storage**.
- Designed and implemented **SyncTrack**, a desktop file management tool using **Python** and **Regex**, with **real-time synchronization**, content-level search/replace, and **hierarchical file** visualization.

Project Trainee   Mar 2022 - Jun 2022
Zoho Corporation

- 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

AI ChatPDF
https://chatpdf-delta-eight.vercel.app/

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

UPI Expense Tracker AI
https://upi-tracker-ai.herokuapp.com/

- Developed an AI-powered expense management platform using **ReactJS, Spring Boot microservices, Kafka, and Redis** for real-time UPI transaction tracking and classification.
- Secured the platform with **OAuth2/JWT authentication**, delivered AI-driven financial insights leading to a **15% improvement in user budget management**, and deployed on **Heroku with Docker and Kubernetes** for scalability, containerized orchestration, and high availability.

Student Attendance Monitoring System
https://studentcollegeproject.herokuapp.com/

- **Developed a laboratory-focused Student Attendance Monitoring System** using ReactJS, Node.js, Express, MySQL, and Elasticsearch to automate attendance tracking and streamline administrative operations.
- Implemented **real-time attendance logging and search** with Elasticsearch indexing for instant retrieval of student records, and built a **responsive dashboard** using ReactJS and Bootstrap for students and administrators.
- Deployed the application with **Docker and Kubernetes** for scalability and fault tolerance, resulting in a **70% reduction in manual effort** and **60% faster record retrieval** across lab sessions.

EDUCATION

KPR Institute of Engineering and Technology   2022
BE/B.Tech/BS