

# Saranjith P

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## EXPERIENCE

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### Metric Tree Labs

Software engineer

Kochi, Kerala

Oct 2022 - Dec 2024

- Developed various applications on Node.js (Express, NestJS) for backend development. and databases such as PostgreSQL and mongoDB.
- Experienced in designing and architecting high-scale social media, fintech, and hospital management applications.
- Skilled in system architecture with high-scale solutions using Kafka for event streaming and Redis for caching and real-time data processing.
- Integrated APIs for financial projects from Yes Bank, Paysprint, Digio, ECAPS, AEPS, MATM, and NSDL. Additionally, utilized APIs from Cashfree, Razorpay, SendGrid, Twilio, and NettyFish.

### Codelattice Digital Solutions

Software engineer

Calicut, Kerala

Aug 2021 - Oct 2022

- Developed with multiple stacks like Express js, Mongodb, Mysql, Dynamodb, Angular, and Vuejs
- Developed highly scalable and maintainable ERP and Athletics activities managing software
- Integrated third-party ariontrucks, keep trucking, fleet hunt, samsara, people net for fetching truck dealers real-time details also using Strava and Google APIs

## PROJECTS

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Forum IAS - Backend engineer

MTL, Kochi

- Developed a highly scalable social media application like X app exclusively for IAS officers and IAS students.
- Designed a system for real-time updates on likes and comments using Socket.IO for live interactions and Kafka for efficient data streaming.

- Designed a system utilizing multiple databases for quick data access, with calculations sourced from a central "source-of-truth" (SOT) database to ensure consistency and accuracy.
- Architect a highly scalable chat module with all the core features of WhatsApp, utilizing Socket.IO for real-time communication,
- Kafka for distributed event streaming, and Memcache for efficient caching.
- Collaborated with team members to adhere to Agile methodologies, ensuring timely deliverables, efficient resource allocation, and effective communication.

#### **Ecaps Edge - Backend engineer**

**MTL, Kochi**

- Developed a highly scalable multi-tenant financial transaction application using NestJS, PostgreSQL, and Redis, incorporating multiple third-party banking API integrations.
- Designed a microservices architecture for the application, ensuring that each tenant has its own database.
- Implemented dynamic database connection switching for processing requests based on the tenant, enhancing data isolation and performance.
- Created a durable provider for managing and maintaining request switching and caching of Sequelize database connections, optimizing performance and resource utilization
- Deployed the application on AWS EC2 within an Auto Scaling Group to ensure high availability. Configured CloudWatch for monitoring and established a CI/CD pipeline using GitLab for automated deployment and continuous integration.
- Integrated different payment gateways and sms gateways

#### **Purchase Finance - Backend engineer**

**MTL, Kochi**

- Developed a highly scalable loan application under ECAPS
- Integrated DIGIO EMANDATE, payment gateway, and sms gateway APIs
- Managing invoices and user kyc with securities

#### **Send script - Backend engineer**

**MTL, Kochi**

- Developed a hospital management system using a decoupled design architecture for improved maintainability, scalability, and reusability, utilizing Node.js and PostgreSQL.
- Integrated third-party services, including Stripe for payment processing, SendGrid for email notifications, Twilio for messaging, and Google Maps API for location services.
- Implemented a Firebase push notification system for real-time alerts

**Collate - Backend engineer****Codelattice, Calicut**

- Software for managing employees in the company developed using MEAN stack
- Integrated Google authentication, Google APIs and fetch user drive and calendar details
- Manage Gsute and non-gsute organizations sign up

**Pancorp - Backend engineer****Codelattice, Calicut**

- Truck driver monitoring software based in Canada developed using MEAN stack
- Managing and monitoring roles like company, truck, trailer, and driver. Also monitoring driver violations and integrated third-party truck dealers APIs and fetching real-time driver violations

**Trimiles - Backend engineer****Codelattice, Calicut**

- Athletic-related software and managing classes and competitions based in UAE developed using MEVN stack
- Integrated Google authentication, Strava API and real-time fetching user activities
- Manage multiple types of competitions and athletics activities.

**Slack chatbot - Backend engineer****Codelattice, Calicut**

- Integrated Google Cloud APIs and fetch the total count of Gsute customers
- Integrated third-party APIs and fetched Microsoft and Godady customers count
- Integrated Google Sheets API and fetch real-time data
- Using dialogue flow APIs

**EDUCATION**

Govt. ITI Kuthuparamba — Diploma

August 2019 - January 2021

Govt. HSS Pala — Higher Secondary

June 2017 - August 2019

**SKILLS**

Programming: JavaScript, Typescript, Node.js, MYSQL, PostgreSQL, Sequelize, MongoDB, DBMS

Frameworks: Express.js, Nest.js

Tools: AWS EC2, GitLab ci/cd, JIRA, GitHub

Other: Kafka, Redis, Memcache, Docker, Nginx, RabbitMQ