

Saranjith P

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EXPERIENCE

Metric Tree Labs

Software engineer

Kochi, Kerala

Oct 2022 - Present

- 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 and financial transaction 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 from Yes Bank, Paysprint, Digio, ECAPS, AEPS, MATM, and NSDL for financial projects. 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, keeptrucking, fleethunt, samsara, peoplenet for fetching truck dealers real-time details also using Strava and Google APIs

PROJECTS

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