SARANJITH P

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PROFESSIONAL SUMMARY

Senior Software Engineer with 5+ years of experience designing and delivering scalable backend systems, microservices architectures, and real-time data pipelines. Deep expertise in Node.js (Express.js, NestJS), Python (FastAPI), TypeScript, PostgreSQL, MongoDB, Apache Kafka, and Redis. Proven experience building enterprise-grade solutions across fintech, social media, healthcare, and AI domains. Skilled in cloud infrastructure on AWS, CI/CD automation, and distributed system design. Focus on Agentic AI workflows, LLM-powered automation, and intelligent enterprise solutions.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, SQL
Backend Frameworks: Node.js, Express.js, NestJS, FastAPI (Python)
Databases: PostgreSQL, MongoDB, MySQL, DynamoDB, Sequelize ORM
Messaging & Caching: Apache Kafka, RabbitMQ, Redis, Memcache
Cloud & DevOps: AWS (EC2, Auto Scaling, CloudWatch, S3), Docker, Nginx, GitLab CI/CD, GitHub Actions
APIs & Real-time: REST API Design, JWT Authentication, OAuth2, Socket.IO, WebSockets, Firebase, Azure Service Bus
Architecture: Microservices, Multi-Tenant Systems, Medallion Architecture
AI & Automation: Generative AI, Agentic AI, Orkes, LLM Workflow Integration, OCR
Tools & Methodologies: Git, GitHub, GitLab, JIRA, Agile/Scrum, Code Review

WORK EXPERIENCE

Senior Software Engineer | Thought Minds, Kochi, Kerala, *Jan 2025 – Present*

- Architect and deliver agentic AI-driven solutions at enterprise scale, building intelligent and autonomous backend systems using LLM workflows and AI-enabled automation.
- Design scalable microservices with real-time analytics, emphasizing reliability, performance, extensibility, and enterprise-grade solution delivery.
- Lead end-to-end system design and implementation, including technical architecture diagrams, distributed workflows, and infrastructure planning.

Software Engineer | Metric Tree Labs, Kochi, Kerala, *Oct 2022 – Dec 2024*

- Designed and developed RESTful APIs and backend services using Node.js (Express.js, NestJS) with PostgreSQL and MongoDB, supporting high-traffic production applications.
- Architected high-scale social media, fintech, and hospital management applications; implemented event-driven systems using Apache Kafka for distributed streaming and Redis for caching and real-time data processing.
- Integrated 10+ third-party financial APIs, including Yes Bank, Paysprint, Digio, ECAPS, AEPS, MATM, NSDL, Cashfree, Razorpay, SendGrid, and Twilio for fintech and communication workflows.
- Deployed multi-tenant applications on AWS EC2 with Auto Scaling Groups; configured CloudWatch monitoring and established GitLab CI/CD pipelines for automated deployments.

Software Engineer | Codelattice Digital Solutions, Calicut, Kerala, *Aug 2021 – Oct 2022*

- Built scalable, maintainable applications using MEAN stack (MongoDB, Express.js, Angular, Node.js) and MEVN stack (Vue.js), including ERP and athletics management platforms.
- Integrated third-party fleet management APIs (Ariontrucks, Samsara, PeopleNet, Keep Trucking) for real-time truck and driver monitoring for a Canada-based logistics client.
- Implemented Google OAuth2 for single sign-on (SSO), Google Drive API, Google Calendar API, Strava API, and Dialogflow for cross-platform productivity and automation features.

KEY PROJECTS

Mycroft – Insurance AI (Underwriting, Sales, Fraud Detection) – *AI Engineer (Thought Minds)*

- Sole backend developer and frontend support; architected an end-to-end AI insurance platform covering pre-issuance verification calls, automated quote generation, a RAG-based sales assistant, and underwriter automation
- Built a real-time Pre-Issuance Verification Call (PIVC) pipeline performing BMI estimation, face match verification, multi-person detection, second-person prompt detection, sentiment analysis, and suspicious background detection
- Developed a RAG-based insurance quote chatbot that functions as an automated sales agent, generating personalized quotes through natural conversation.
- Automated underwriter workflows using Playwright-based browser automation to validate applicant documents and cross-check submitted details against source records.

Uptechsoft – AI-Enabled U.S. Tolling Management Platform – *AI Engineer (Thought Minds)*

- Sole backend developer; designed full system architecture and implemented an AI-enabled tolling platform using Node.js/NestJS with a microservices architecture.
- Built OCR-based violation detection for tolling, parking, and red-light infractions using Azure Document Intelligence Services; integrated Azure Service Bus for distributed message queuing.
- Implemented a data pipeline using Azure PostgreSQL with Medallion architecture (Bronze/Silver/Gold layers) for structured data processing and analytics.

Forum IAS – High-Scale Social Media Platform – *Backend Engineer (Metric Tree Labs)*

- Developed a highly scalable social media platform (X/Twitter-style) for IAS officers; engineered real-time interactions using Socket.IO and Apache Kafka for event streaming.
- Designed a WhatsApp-like chat module with Socket.IO, Kafka for distributed messaging, and Memcache for high-speed caching to support thousands of concurrent users.
- Implemented multi-database architecture with a centralized source-of-truth (SOT) database for consistency and accuracy across distributed data stores.

Ecaps Edge – Multi-Tenant Fintech Platform – *Backend Engineer (Metric Tree Labs)*

- Built a highly scalable multi-tenant financial transaction platform using NestJS, PostgreSQL, and Redis with per-tenant database isolation via dynamic connection switching.
- Implemented JWT-based authentication with role-based access control (RBAC) for multi-tenant user isolation, securing REST API endpoints across tenant-specific database connections.
- Deployed on AWS EC2 with Auto Scaling Groups and CloudWatch monitoring; established GitLab CI/CD pipelines for continuous integration and automated deployment.
- Integrated multiple payment gateways (Cashfree, Razorpay) and banking APIs (Yes Bank, Digio EMANDATE) for end-to-end financial transaction processing.

Send Script – Hospital Management System – *Backend Engineer (Metric Tree Labs)*

- Developed a modular hospital management system in Node.js and PostgreSQL using a decoupled design architecture for improved maintainability and scalability.
- Integrated Stripe (payments), SendGrid (email), Twilio (SMS/voice), Google Maps API (location), and Firebase Cloud Messaging (push notifications).

EDUCATION

Diploma in COPA *Aug 2019 – Jan 2021*
Govt. ITI Kuthuparamba, Kerala

Higher Secondary Education *Jun 2017 – Aug 2019*
Govt. HSS Pala, Kerala

CERTIFICATIONS & AWARDS

- AWS Certified AI Practitioner
- Orkes Certified
- India AI Impact Summit Hackathon, conducted by Eka Care, Bangalore (2025)
- MindMesh Hackathon, conducted by ThoughtMinds, Kochi (2025)