



Sivaraj Nagaraj

Immediate Joiner

Full-Stack Engineer | Technical Architect

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Profile Summary

- **Versatile:** Full-Stack Engineer and Technical Architect with 10+ years of expertise in Software Engineering.
- **Proficient in Problem Solving at Scale:** Experienced in building large-scale and low-latency distributed systems, services, data streams, and developed Web and Mobile Apps used by 10+ millions users by DAU.
- **Worked in SaaS Startup:** Built Products and Features from scratch and implemented multiple business impactful solutions like reducing page load times, scalable low-latency services, reusable system components etc.
- **Agile and Cross-functional Collaboration:** Worked in Agile Methodologies, Sprints, have done Stakeholder Management, Release Management and worked closely with cross-functional teams like Data Science, Product, Design, QA and provided technical insights, and delivered solutions that meet business goals.
- **Team Management:** Managed a team of 6+ developers, providing mentorship, guided team members in problem-solving, best practices, code reviews, and offered support to resolve technical issues and incidents.
- **Roles and Responsibilities:** Contributed to Quarterly Roadmaps, Hands on in Requirement Analysis, Tech Decision Making, Solution Architecting, Building and Productionizing Product Features including BE and FE, Automations, Performance Optimizations and improving Metrics to achieve the Business Goals and Outcomes.

Technical Skills

Programming Skills	• JavaScript • Python • Java • TypeScript • SQL
Backend Skills	• Node.js • Express.js • Flask • FastAPI • Nest.js • Apache ZooKeeper • RESTful API • Java SpringBoot • Jupyter Notebooks • GraphQL • gRPC • MicroServices
Frontend and Mobile Skills	• React.js • Redux • Next.js • HTML5 • UI/UX • React Native • Android
Data Skills	• PostgreSQL • MongoDB • DocumentDB • RedShift • Apache Spark • Apache Kafka • Redis Cache • Apache Camel EIP • PySpark • Pandas • Streaming Data • Apache Airflow
DevOps Skills	• Kubernetes • Docker • Jenkins • CI/CD • Harness • Grafana • Kibana • Consul • Istio
Cloud Skills	• AWS (EC2, RDS, S3, Lambda, ECS, EKS, SQS, ELB, SageMaker, etc.) • Confluent Kafka • GCP (DataProc, Firebase, GCE, GS etc.) • MongoDB Atlas • Redis Labs
Product Skills	• Databricks • Jira • Confluence • Bitbucket • Atlan • Sentry • Keycloak • Tableau • Figma
Secondary Skills	• MLOps • ML Engineer • MLFlow • Kubeflow • OAuth/SSO Integrations • UI Design • Chatbot Developments with NLP • Scripting • Automations • Git • ML Feature Store

Work Experience

Staff Engineer at MPL (Mobile Premier League)

(Jul '18 to Present)

- **Worked as Architect and Full-Stack Engineer in Data Engineering**, responsible for architecting, building and optimizing backend microservices at large-scale and low-latencies like Home Page Recommendations, Dynamic Price Forecasting, Realtime Kafka pipelines, User A/B Feature Service etc. and Frontends like Data Platform, Data Quality/Observability Dashboard, Fraud Ops Dashboard, Config Management, User Affiliation etc. with End-2-End Ownership and Deployments.
- **Key architect of the MPL Mobile Frontend App which I built from scratch** including core modules like Login, Home, Payments, etc with performance optimizations and done 120+ releases which has 85+ millions of User Base.
- **Worked closely with the Data Science and other cross-functional teams** and contributed in business metrics improvements like User Retention, User Engagement, reduced Customer Acquisition Cost, Infra Cost reduction etc.
- **Independently solved business and tech problem statements** by developing and productionising in-house solutions like Config Management, Fraud Ops, Data Quality/Observability Dashboards, Alert-as-a-Service, Chatbots Automations etc.
- **Recognized and got appreciated thrice in Company's All Hands Meetings** for implementing stable solutions and processes.

- **Worked at positions of ML Engineer and DevOps Engineer** thus owned and implemented multiple ML Inferencing Services, MLOps practices for Data Science team, as well as built CI/CD pipelines, Cloud, worked on Containerization (Kubernetes) of various backend services, build app monitoring dashboards, alerts and Slack based Chat Bot automations frameworks etc.

Senior Software Engineer at Hike Messenger

(Dec '17 to Jul '18)

- **Worked as a Mobile App Developer** and responsible for developing and releasing lite versions of OLA, Zomato, Movie Show Booking Apps from scratch using their official APIs which runs as Micro Apps (React Native) inside Hike Messenger.

Senior Engineer at Brillio

(Mar '17 to Dec '17)

- **Worked as a MERN Stack (Mongo, Express, React, Node) and Mobile App Developer** by designing and developing both Frontend and Backend modules as well as developing API Services for different clients and modules.
- **Awarded with 'Team Excellence'** - a recognition for the Teams that showed a high level of performance and quality delivery.

Technology Analyst at Infosys Ltd

(Apr '15 to Mar '17)

- **Worked as a Technology Analyst** with good knowledge of HealthCare and Retail Chain business processes.
- **Worked in development** and deployment of Business Intelligence Solutions and in migration projects of Legacy Systems.
- **Awarded with 'Bravo Awards'** - This Individual Award is a recognition and appreciation of outstanding performance.
- **Worked on a series of Automation Tools and Scripts** which lead to a drastic reduction in Manual Efforts and recognized as Client Value-adds.

Software Engineer at Syntel Ltd

(Dec '12 to Apr '15)

- **Worked as an Analyst Programmer in Healthcare Vertical** under Application Development and Support projects.
- **Awarded with 'SMART'** - A value award for showing the characteristic to define a problem so as to include its solution or where that is not possible, an approach to the solution.

Projects

- **MPL Mobile App**: Key architect of the Frontend App, built from scratch including core modules like Login, Home, Payments, Profile, Chat, etc with performance optimizations, release management, which has 85+ millions of User Base.
- **Home Page and ML Recommendations**: Worked on and contributed to Home Page service, including features like Widget Layouts, A/B segmentation split, response formation by calling multiple downstream services like User Profile, Payments, etc.
- **Data Platform Tool**: An In-house SaaS tool to interact with various backend services, configs, ops etc. used by all internal stakeholders, provides interfaces to monitor and update various production systems across different cloud environments.
- **User Affiliation**: A Fullstack service used by external users to check their transactions and reports.
- **Data Quality/Observability Dashboard**: Architected and developed In-house Backend and Frontend solutions to solve data domain issues like Data quality checks, schema validation, volume, data distribution (similar to Monte Carlo) etc.
- **Realtime Event Driven Data pipelines and Services**: Developed and owned subset of multiple data heavy services like Data Relay Service (Ingress and Egress of data from various sources to destinations, events from Backend/Frontend with enrich, transform etc.), User Segmentation Service, Data Ingestion, Users Tasks Service (Tracks user activity and credit incentives).
- **Fraud Ops Dashboard**: Architected from scratch a centralized solution for all User Fraud related operations like Fraud Score calculations using ML, Manual Annotations, Reporting, Fraud Cases Tracking, User Block/Unblock etc.
- **ZooKeeper Config Management**: Build a sophisticated Config management solution with features like Schema check, auditing, workflow, alert, impact analysis, which became the core tool of the entire Org and used by all stakeholders.
- **ML Services**: Built and deployed multiple ML Models for Data Science team with use cases like Realtime Dynamic Price Forecasting and Optimization, Home Page Content Recommendations and Personalization, A/B Feature Testing, Fraud Pattern Detection, ELO Rating Calculation, Featured Events Cross-Selling, Multi-User Match Making Simulation etc.
- **Feature Store**: Build Feature Store and Serving Layer to feed data points for different ML Models at realtime.
- **Developer Tools and Chat Bot Automations**: Built multiple developer tools and Chat Bots with NLP and Intelligence as a Bot first interface to automate various workflows like Build triggers, (Backends, Frontend Apps) and Reportings via Slack Bot
- **Alert-as-a-Service**: Conceptualized and built a shift-left kind service, which tracks multiple activity feeds like builds, incidents, config changes and correlates it via some models, anomaly detection and understands context and raises Alerts and Reportings straight to the stakeholders.
- **Hike Messenger Micro Apps**: Developed lite versions of OLA, Zomato, Movie Show Booking Mobile Apps from scratch using their official APIs which runs as Micro Apps inside Hike Messenger.
- **Ford In-Store SalesPerson App**: Developed Backend and Frontend app which includes Car's Portfolio, Specifications, etc.

Education

- **BE Graduate (Bachelor of Engineering in Electronics and Communication Engineering)** 2008 - 2012
Sona College of Technology, Salem, Tamilnadu. CGPA: **87.70 %**