

VIVEK MANKONDA

Senior Software Engineer | Distributed Systems | Product Engineering

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SUMMARY

Senior Software Engineer with **8+ years** building production systems across fintech, insurance, gaming, observability, and consumer products. Experience spans 0-to-1 product development, high-concurrency systems, financial and trading platforms, workflow orchestration, and cloud infrastructure.

TECHNICAL SKILLS

Specializations: Distributed Systems, Event-Driven Architecture, System Design, Microservices, Workflow Orchestration, Fault Tolerance, Concurrency, Idempotency, 0-to-1 / MVP Development, End-to-End Product Development

Languages & Frameworks: Java, TypeScript, Spring Boot / Spring Cloud, Express.js, Next.js, Flutter

Messaging, APIs & Protocols: Kafka, REST, GraphQL, Webhooks, WebSockets, WebRTC, OAuth 2.0 / JWT, FIX / QuickFIX, Camunda (BPMN / DMN)

Data & Infrastructure: PostgreSQL, MongoDB, DynamoDB, Redis, Elasticsearch, AWS, Docker, Kubernetes, Terraform

Observability: New Relic / NRQL, Grafana, CloudWatch, Service Instrumentation, Metrics / Logs / Traces, Alerting, Production Debugging

EXPERIENCE

Independent Software Engineer / Product Developer | Jun 2025 - Present | Remote

- Built and launched Footsteps Space, a Flutter, TypeScript/Express, PostgreSQL/Supabase, and Next.js travel platform that reached ~100 users, 85%+ outside my personal network; owned the product end to end from architecture and backend APIs to mobile, maps, authentication, and deployment.
- Designed FOTA, Footsteps' offline-first, battery-aware geolocation system with adaptive GPS sampling, local persistence, and deferred synchronization for intermittent connectivity.

New Relic - Senior Software Engineer | Jan 2025 - May 2025 | Hyderabad

- Built reusable Terraform automation across thousands of customer AWS accounts, replacing manual telemetry onboarding with repeatable, auditable provisioning.
- Reduced MTTR by 37% through improvements to alert routing, dashboards, runbooks, observability, and service ownership.

Acko - Software Development Engineer 3 | Mar 2023 - Jul 2024 | Bengaluru

- Cut pre-policy medical-checkup turnaround from 17 days to 3 days by building long-running Camunda/BPMN/DMN workflows with persisted state, retries, timeouts, exception handling, and asynchronous vendor integrations.
- Helped establish a reusable workflow-orchestration architecture and built New Relic/NRQL instrumentation and dashboards for workflow health and production debugging.

Gameskraft Technologies - Senior Software Engineer | Apr 2022 - Mar 2023 | Bengaluru

- Optimized matchmaking and core backend services handling 1M+ requests/min during a 215K-participant Guinness World Record tournament; hardened cache/recovery paths, removed CPU/memory bottlenecks, and right-sized AWS infrastructure, cutting spend by 38%.

Needle Innovision - R&D Engineer, Backend | Oct 2018 - Mar 2022 | Bengaluru

- Took FinchMoney, a US banking and investment platform, from 0-to-1, building backend systems for KYC, pooled investing, rebalancing, fractional allocation, trading, reconciliation, and settlement.
- Integrated brokerage execution through FIX/QuickFIX and designed transactional, idempotent processing and reconciliation safeguards for duplicate events, retries, partial failures, ambiguous partner responses, and delayed settlements.
- Separated latency-sensitive card authorization from asynchronous investment recovery, allowing spending to complete immediately while sell-side execution and settlement proceeded independently.
- Led distributed engineering delivery across the US, Sri Lanka, and India; also delivered 8 mobile/web modules for Thomas Cook India and built WebRTC systems for 1:1 live video and broadcast.

ThoughtClan Technologies - Software Engineer | Aug 2017 - Aug 2018 | Bengaluru

- Delivered enterprise web applications across 21 international markets, with automation and performance work contributing to a 30% improvement in site performance.

EDUCATION

B.Tech, Computer Science & Engineering | Heritage Institute of Technology, Kolkata | 2013 - 2017