

PAVAN KUMAR PATRUNI

ENGINEERING LEADERSHIP | SENIOR ENGINEERING MANAGER | TECHNICAL ARCHITECTURE

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ABOUT ME

Engineering Leader with **12 years** of experience spanning hands-on system architecture and multi-squad people leadership across hyper-growth FinTech and HealthTech organizations, scaling engineering orgs from **6 to 20+ engineers** while personally architecting the core distributed systems (event-sourced ledgers, high-throughput microservices, Kubernetes migrations) underpinning them. Cut production anomalies **80%** and accelerated dev velocity **4x** through AI-driven workflows. Operates equally as a technical decision-maker owning architecture, RFCs, and cross-team direction and as a people leader owning hiring, promotions, and performance. Track record includes **50%+ infrastructure cost reduction**, enterprise-grade SSDLC governance, and **50% faster time-to-market**.

EXPERIENCE

Senior Engineering Manager | Onsurity, Bengaluru

Aug 2025 - Present

(Series B insurtech scaling employee health benefits nationally)

- Own technical and people leadership for 3 squads (20+ engineers), cutting onboarding time **40%** via hiring rubrics and assessment frameworks I designed; own performance reviews, promotions, and senior hiring panels.
- Embedded GenAI tools and automated code-gen pipelines across the org, **driving 4x acceleration** in dev velocity.
- Architected **15+ core domains** and a centralized SKU catalog into one unified commerce experience, eliminating checkout fragmentation and data silos while authoring the domain-boundary design to drive cross-team adoption.
- Instituted enterprise-wide observability, incident-response and SSDLC governance standards, **cutting production anomalies 80%** and time-to-market 50% while enforcing under 400ms p99 SLAs at 5K+ RPM.
- Designed and deployed distributed rate-limiting, circuit-breaking, and standardized API contracts, **guaranteeing 99.99% availability** under high-concurrency traffic.
- Architected a Wallet system with an event-sourced ledger, ensuring **zero-drift balance consistency** personally owned the core data model and consistency guarantees.
- Led the technical design and migration from Elastic Beanstalk to Kubernetes achieving **near-zero downtime cutover** across MySQL/PostgreSQL/MongoDB clusters.
- Migrated high-throughput workloads from SQS to Kafka to support multi-consumer event replay, **cutting infrastructure costs 50%+.**
- Operate within a regulated HealthTech/Insurtech environment, partnering with Product, Design, and Executive Leadership to align delivery and technical strategy with quarterly OKRs.

Engineering Manager | BharatPe, Gurgaon

May 2020 - Aug 2025

(Series E fintech; regulated NBFC lending arm)

- Joined as **Tech Lead, promoted to Engineering Manager** within tenure, transitioned from individual technical ownership to full people-management of a multi-squad org.
- Scaled backend and mobile orgs from **6 to 14+ engineers** during hyper-growth, maintaining predictable execution velocity.
- Architected high-throughput microservices with rigid API boundaries, sustaining **30K+ RPM at under 200ms SLA**.
- Designed the service-to-service contract and failure-isolation strategy underpinning that microservices layer, ensuring a single downstream lending partner outage couldn't cascade into platform-wide degradation.
- Cut loan processing time **30%** by redesigning domain workflows and decoupling legacy monolithic dependencies.
- Owned performance reviews and career development for direct reports, mentoring **mid-level engineers into senior roles**.
- Managed full-lifecycle delivery of distributed systems, from architecture through high-volume production deployments.
- Partnered with Product, Risk, and Compliance leadership within a regulated RBI & NBFC environment to align delivery with business-critical timelines.

Associate Technology Level 2 | Publicis Sapient, Gurgaon

Oct 2019 - Apr 2020

- Contributed to enterprise-scale frontend architecture for Heathrow Airport Holdings using ReactJS and Redux to build responsive, mission-critical UIs.
- Engineered high-visibility features including a **global elastic search component** and **real-time flight management functionality** handling high-concurrency operational data.
- Championed clean code architecture and modular frontend practices, establishing design patterns and automated test coverage that **improved long-term maintainability**.
- Maintained **high-velocity execution**, shipping complex production-ready features under tight deadlines while adhering to strict performance and security benchmarks.

Senior Software Engineer | MiSport, Gurgaon

May 2017 - Sep 2019

- Architected a **high-availability, real-time match-search engine**, delivering dynamic cricket scorecards, low-latency ball-by-ball stats, and live-streaming feeds.
- Enhanced the core video ecosystem (PVM+), engineering player modules, automated highlight-generation workflows, and time-stamped metadata tagging.
- Contributed to enterprise-scale multimedia platforms, developing core engines for live video players, newsfeeds, and podcast services with **cross-platform compatibility**.
- Collaborated with backend and streaming teams to **minimize video buffering latency** and design high-throughput integration contracts.

Software Engineer | MagikMinds, Hyderabad

Apr 2015 - Apr 2017

- Engineered hybrid and native Android applications using Ionic and Angular, building **highly responsive cross-platform architectures** for real-time mobile performance.
- Architected real-time transactional and scheduling engines, delivering core modules including Book a Service and COPSZ for seamless appointment coordination.
- Developed mission-critical, high-availability safety applications integrating **low-latency panic alerts** and automated emergency notification protocols.
- Designed and deployed GPS navigation and GIS-based mobile solutions enabling field operations with **precise location tracking** and optimized routing algorithms.

Co-Founder | Heartynote, Hyderabad

Apr 2014 - Apr 2015

- Architected a **high-security, private social networking platform** with encrypted communication and rigid data-isolation protocols.
- Designed responsive UX modules including personalized activity feeds and analytics dashboards.
- Engineered low-latency group-sharing (ROOM) and real-time engagement engines for **synchronized data distribution** across secure cohorts.
- Implemented push-notification engine and **immutable activity tracking ledger** for audit and compliance.
- Wound down the venture in 2015 after the funding environment tightened.

EDUCATION

B. Tech | Computer Science and Engineering

2010 - 2014

Jawaharlal Nehru Technological University Kakinada

SKILLS

LEADERSHIP & STRATEGY

Engineering Leadership & Strategy, Team Building & Mentorship, Stakeholder & OKR Management, Cross-squad Collaboration, Talent Pipelines & Growth, Org Design, Performance Management & Promotions

GOVERNANCE & DELIVERY

Roadmap & Sprint Delivery, AI-driven Workflows, Engineering Governance, SSDLC Governance, Observability & Performance, Agile & Change Management, Resource & Cost Optimization, Regulated Compliance

ARCHITECTURE & TECH

System Design & High Scale, Technical Strategy & Architecture Direction, Distributed Systems, Event-Driven Architecture, Microservices & API Design, Resiliency & Cloud Strategy, Java, Spring Boot, Node.js, SQL, NoSQL, Elasticsearch, ReactJS, React Native, TypeScript, AWS, Docker, Kubernetes, Kafka