

PAVAN KUMAR PATRUNI

ENGINEERING LEADERSHIP | SENIOR ENGINEERING MANAGER



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ABOUT ME

High-impact **Engineering Leader** with **12 years** of experience building, scaling, and transforming multi-squad engineering organizations across hyper-growth **FinTech and HealthTech** sectors. Expert in translating complex business **OKRs** into robust technological roadmaps, managing cross-functional technical debt, and driving operational efficiency through **AI-driven development workflows**. Proven track record of optimizing enterprise cloud and compute infrastructure, championing enterprise-grade **SSDLC governance**, and scaling high-performance engineering cultures through **multi-squad organizational leadership** and structured talent pipelines.

EXPERIENCE

Senior Engineering Manager | Onsurity, Bengaluru

Aug 2025 - Present

- **Led 3 cross-functional backend, frontend, quality and platform squads (20+ engineers)**, cut onboarding time **40%** via standardized hiring rubrics and assessment frameworks, owning performance reviews, promotions, and senior hiring panels.
- Embedded GenAI tools and automated code-gen pipelines, **driving 4x acceleration in dev velocity**.
- Architected **15+ core domains** (Payments, Billing, Cart, Order) into one unified commerce experience, eliminating checkout fragmentation.
- Instituted enterprise-wide observability and incident-response standards across 3 business units, **cutting production anomalies 80%** while enforcing **under 400ms p99 SLAs at 5K+ RPM**.
- Deployed distributed rate-limiting, circuit-breaking, and standardized API contracts, **guaranteeing 99.99% availability** under high-concurrency traffic.
- Designed a high-throughput Wallet system with an event-sourced ledger, ensuring **zero-drift balance consistency**.
- Built a centralized catalog system unifying SKU data enterprise-wide, eliminating silos and **speeding time-to-market**.
- Orchestrated **zero-downtime migration** from Elastic Beanstalk to K8s and enterprise MySQL/PostgreSQL/MongoDB clusters.
- **Cut infrastructure costs more than 20%** by migrating SQS workloads to Kafka and optimizing cloud OpEx.
- Overhauled SSDLC and product-collaboration frameworks, **cutting time-to-market 50%** via cross-org governance.
- Operated within a **regulated HealthTech/Insurtech** environment, ensuring data-privacy compliance alongside high-velocity feature delivery.
- Partnered directly with **Product, Design, and Executive Leadership** to translate business OKRs into quarterly technical roadmaps.

Engineering Manager | BharatPe, Gurgaon

May 2020 - Aug 2025

- **Joined as Tech Lead and promoted to Engineering Manager** within the tenure, transitioning from technical ownership to full people-management of a multi-squad org.
- Scaled multi-squad backend and mobile orgs from **6 to 14+ engineers** during a hyper-growth phase, maintaining predictable execution velocity.
- Architected high-throughput microservices with rigid API boundaries sustaining **30K+ RPM at less than 200ms SLA**.
- **Cut loan processing time 30%** by optimizing complex domain workflows and decoupling legacy monolithic dependencies.
- Owned performance reviews and career development for direct reports, **mentoring mid-level engineers into senior roles**.
- Boosted platform reliability and security via **proactive distributed monitoring** and runtime performance tuning.
- Managed full-lifecycle delivery of distributed systems, from architecture through **high-volume prod deployments**.
- Operated within a regulated RBI & NBFC environment, partnering directly with **Product, Risk, and Compliance** leadership to align engineering 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.
- Discontinued in 2015 due to funding constraints.

EDUCATION

B. Tech.	Jawaharlal Nehru Technological University Kakinada
2010 - 2014	Computer Science and Engineering

SKILLS

LEADERSHIP & STRATEGY

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

GOVERNANCE & DELIVERY

Roadmap & Sprint Delivery, AI-driven workflows, Engineering Governance, Observability & Performance, Agile & Change Management, Resource & Cost Optimization

ARCHITECTURE & TECH

System Design & High Scale, Resiliency & Cloud Strategy
Java, Spring Boot, Node.js, SQL, NoSQL, Elasticsearch, ReactJS, React Native, TS
AWS, Docker and Kubernetes