

# LEKSHMANA PERUMAL M

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## Senior Software Engineer | Technical Lead

Platform Engineering • Scalable Distributed Systems • AI-Driven Engineering • Technical Leadership

Senior platform engineer with **13+ years** specializing in backend systems and distributed architecture, with **full-stack capabilities** for end-to-end solution delivery. Currently leading a cross-functional engineering team while architecting scalable systems and driving technical excellence across the platform. Proven track record leading technical initiatives, designing enterprise-driven architectures, and building production-grade microservices serving millions of transactions across global markets. Known for systematic problem-solving approach and commitment to building resilient, self-sustaining solutions.

## TECHNICAL EXPERTISE

*Designing, building, and optimizing scalable, reliable, and intelligent systems that power global-scale platforms.*

**System Architecture & Engineering:** Distributed Systems Design, Microservices & Event-Driven Patterns, Distributed Transaction Management, Scalability & Performance Optimization, Observability & Reliability Engineering

**Backend Engineering:** Java, Spring Ecosystem (Boot, Security, Batch), Python, REST/SOAP APIs, OpenAPI, API Design, Caching & Resiliency Strategies

**Frontend & Integration:** JavaScript, TypeScript, React, Next.js, Design Systems (Style Dictionary, JSON Tokens), Frontend-Backend Integration

**Data & Messaging:** Oracle, MySQL, PostgreSQL, AMQ, Data Modeling & Stream Processing, Applied Data Security & Classification

**Cloud & Platform Engineering:** Multi-Cloud Platforms (GCP, AWS), Containerization (Docker, Kubernetes), CI/CD Modernization (Jenkins → Harness Migration), Cloud-Native Design, Deployment Automation & Observability

**Leadership & Strategy:** Multi-Level Team Leadership (Senior & Junior Engineers), Technical Mentorship & Growth Planning, Technical Roadmapping, Cross-Functional Collaboration, Strategic Communication, AI-Driven Development Practices

## PROFESSIONAL EXPERIENCE

### Senior Software Engineer

April 2023 – Present

PayPal Inc., Chennai

Lead Software Developer and Technical Lead managing engineering team for PayPal's Global Indirect Tax Determination and e-Invoicing platform

- Team Leadership:** Leading and mentoring a cross-functional team of 6–8 engineers, driving technical excellence, quality delivery, and professional growth.
- Technical Leadership:** Led multiple product/feature launches enabling tax collection and reporting capabilities across global markets
- Platform Architecture:** Designed South Africa and UAE Tax Determination capabilities including VAT ID collection, pricing integration, and reporting systems
- Full-Stack Development:** Designed and delivered end-to-end solutions spanning backend services, frontend interfaces, and system integration.
- Performance Excellence:** Maintained high-performance real-time tax API with sub-second response times supporting business-critical operations
- AI Integration:** Built AI-enabled tools and presentations emphasizing Responsible AI and developer productivity.
- Developer Ecosystem:** Created MCP client for TaxEngine and MCP Java tools with Maven archetype, enabling PayPal developers to easily build deployment-ready components.
- Community Engagement:** Active participant in PayPal cybersecurity awareness events, hackathons, and cross-team innovation initiatives.

### Software Engineer III

April 2020 – March 2023

PayPal Inc., Chennai

Lead Developer - Strategic Tax & Invoicing Platform

- Built foundational Indirect Tax Platform reducing global tax-compliance complexity.
- Led China DC migration, SAFE transfer, and India e-Invoicing projects meeting government mandates.
- Executed Raptor upgrade, JDK 17 migration, and Oracle cutover with zero downtime; automated monthly invoice generation and managed vendor applications and monitoring systems.

Senior Software Engineer

Altimetrik India (Client: PayPal Inc.)

May 2016 – April 2020

- Contributed to building foundational Indirect Tax and Consumer Experience platforms serving millions of transactions globally.
- Built complete VAT ID collection frontend within three weeks learning new stack.
- Drove migration from monolith to microservices improving latency and scalability.

Senior Software Engineer

BORN Group, Chennai

March 2014 – April 2016

- Implemented enterprise e-commerce solutions using SAP Hybris for B2B/B2C clients.
- Led requirement analysis, sprint planning, and complex software project delivery

Technologies: Spring Framework, SAP Hybris, Apache Solr, Oracle, REST APIs

Programmer Analyst

Cognizant Technology Solutions, Chennai

October 2012 – March 2014

- Started as Java Trainer , Built healthcare data-management systems and trained new engineers.

EDUCATION

Bachelor of Engineering, Computer Science | Mepco Schlenk Engineering College | 2008 – 2012

Master of Science, Cyber Forensics & Information Security | University of Madras | 2018 – 2019

LEADERSHIP & PROFESSIONAL IMPACT

<div>Technical Leadership<ul style="list-style-type: none"><li><b>System Design Philosophy:</b> Focus on building sustainable systems that function independently with minimal ongoing intervention</li><li><b>Knowledge Transfer:</b> Recognized for ability to explain complex technical concepts with clarity and patience across diverse audiences</li><li><b>Process Innovation:</b> Established engineering standards and practices adopted across teams</li><li><b>Technical Mentorship:</b> Developed engineers focused on independent problem-solving through guidance and understanding</li></ul></div> <div>Recognition &amp; Innovation<ul style="list-style-type: none"><li><b>PayPal Recognition:</b> Multiple awards for Innovation, Collaboration, Customer Focus, and teamwork excellence</li><li><b>Competition Excellence:</b> PayPal Opportunity Hack winner and cybersecurity competition participant</li><li><b>Professional Development:</b> Mentorship Core Team member, Engineering Mentor, Hackathon Volunteer</li></ul></div>	<div>Technology for Social Impact<ul style="list-style-type: none"><li><b>Responsible Technology:</b> Advocate for tech ethics and responsible AI practices ensuring equitable technology development</li><li><b>Education Initiative:</b> Founded "Kadukkarai Siragugal" supporting rural education through technology and financial assistance</li><li><b>Community Mentorship:</b> Technical mentor across various platforms and college programs developing software engineers</li><li><b>Social Innovation:</b> Contributor to technology solutions addressing real-world problems in developing markets</li></ul></div> <div>Cross-functional Excellence<ul style="list-style-type: none"><li><b>Global Delivery:</b> Successfully delivered projects across mutliple Global markets</li><li><b>Stakeholder Collaboration:</b> Worked with Pricing, Merchant Reporting, Onboarding, and Infrastructure teams</li><li><b>Talent Development:</b> Part of interview community to hiring technical talent across the organization</li></ul></div>
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KEY ACHIEVEMENTS & IMPACT

<div><ul style="list-style-type: none"><li><b>Platform Scale:</b> Built and scaled PayPal’s Indirect Tax Determination Platform processing <b>millions of daily transactions</b> across multiple global markets.</li><li><b>Global Compliance Enablement:</b> Delivered end-to-end tax and e-invoicing capabilities across global markets, enabling seamless local compliance and faster country rollouts.</li><li><b>Technical Excellence:</b> Maintained <b>sub-second API response times</b> and <b>99.99%</b> platform uptime for business-critical operations used across PayPal’s merchant ecosystem.</li><li><b>Infrastructure Leadership:</b> Led modernization initiatives including Raptor upgrade, JDK 17 migration, and Jenkins → Harness CI/CD transition, achieving zero production downtime.</li><li><b>Innovation &amp; Recognition:</b> Finalist in company-wide innovation challenge and PayPal Opportunity Hack winner; created developer tools adopted across PayPal engineering teams.</li></ul></div>	<div><ul style="list-style-type: none"><li><b>Engineering Culture:</b> Established sustainable communication workflows and documentation standards adopted across teams; active in cybersecurity awareness events and hackathons.</li><li><b>Team Development:</b> Mentored 10+ engineers across multiple teams, contributing to growth and retention; active member of PayPal’s Mentorship Core Team.</li><li><b>Technical Thought Leadership:</b> Active technical writer covering distributed systems, AI ethics, and engineering leadership topics, demonstrating clear communication of complex concepts and strategic thinking.</li><li><b>Social &amp; Community Impact:</b> Responsible AI and tech for social good; Supporting rural education, and mentor to developers and students through community/mentorship programs.</li></ul></div>
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References and detailed project portfolios available upon request