

Gurusubramaniam Sundararaman

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Senior Engineering Manager | Full Stack Architecture | Cloud Platforms | Distributed Systems

Senior engineering leader with 18+ years of experience delivering full stack platforms across web, backend, and cloud infrastructure. Known for leading teams through complex system design, production operations, and platform modernization. Strong record of improving reliability, scalability, and delivery speed while coaching engineers and shaping architecture across frontend and backend systems. Experienced in regulated environments, high-availability platforms, and customer-critical digital experiences.

Skills

Core Strengths

- Full Stack System Architecture • Backend Platforms and APIs • Cloud-Native Development (AWS)
- Distributed Systems • Microservices and Event-Driven Design • Production Reliability and Observability
- Technical Leadership and Mentorship • Agile Delivery and Program Execution
- Cross Functional Collaboration • Stakeholder Alignment • Organizational Influence

Technical Expertise

- Languages: JavaScript, TypeScript, Node.js, Python, Java, Ruby
- Frontend: React, Next.js, GraphQL, Micro-frontends, Server-driven UI
- Backend: REST APIs, GraphQL services, microservices architecture, asynchronous workflows
- Cloud and Infrastructure: AWS (EC2, Lambda, DynamoDB, S3, SQS, SNS), Docker, Kubernetes, CI/CD pipelines
- Event Streaming: Kafka, asynchronous event-driven architecture, message-based integrations
- Data: MongoDB, distributed data patterns, caching, and performance optimization
- Operational Excellence: Monitoring, alerting, incident response, reliability engineering

Professional Experience

Lowes - NC

Senior Engineering Manager - Post Purchases | Jun 2025 - Present

- Lead engineering delivery for customer and store-associate platforms spanning frontend applications, backend services, and cloud infrastructure.
- Designed and implemented event-driven workflows using Kafka to enable real-time communication between store systems, backend services, and operational tools, improving system responsiveness and reliability.
- Own system design, technical execution, and production operations for multiple high-traffic applications.
- Built an AI-driven automation platform integrating web apps, backend services, and operational workflows; reduced troubleshooting effort by 80% and support tickets by 85%.
- Designed full-stack architecture for LLM-powered knowledge and workflow system used by store associates.
- Guide architecture decisions across React frontends, Node/Java services, and AWS infrastructure.
- Partner with product, operations, and business leaders to align technical solutions with enterprise goals.
- Establish engineering standards, development processes, and performance expectations across the team.

- Coach engineers and emerging leaders through architecture reviews, design guidance, and hands-on mentoring.

Greenlight Financial Technology - Remote, NC

Director of Software Engineering (Hands-on Platform Leadership) | 2023–2024

- Led full-stack platform modernization across onboarding, card lifecycle, and web applications.
- Re-architected monolithic systems into microservices and micro-frontend architecture supporting scalability and faster releases.
- Implemented server-driven UI and backend orchestration using GraphQL and Node.js to enable dynamic product experiences.
- Introduced Kafka-based event streaming to decouple services, support asynchronous processing, and improve scalability across onboarding and card lifecycle systems.
- Introduced CI/CD, automated testing, and deployment pipelines, reducing release cycles by 90%.
- Improved system performance and reliability, supporting sustained growth in customer onboarding.
- Partnered with product, data, and operations teams to prioritize and deliver complex initiatives.
- Conducted architecture reviews, design sessions, and technical planning across multiple teams.

Tuya Infotech - Remote, CA

Senior Software Engineering Manager | May 2023 - Oct 2023

- Led development of SaaS healthcare-adjacent platform across frontend, backend, and cloud services.
- Migrated services to AWS, improving scalability, availability, and operational efficiency.
- Implemented authentication and identity workflows using cloud identity platforms.
- Built CI/CD pipelines and reduced time-to-market by 40%.
- Managed production support, issue resolution, and system performance improvements.

PayPal Inc. - San Jose, CA

Software Engineering Manager, Level 2 | Oct 2011 - May 2023

- Led global engineering teams building full-stack platforms supporting onboarding, checkout, payments, and regulatory systems at massive scale.
- Designed and delivered distributed systems for high-throughput customer transactions and compliance workflows.
- Guided architecture for reusable UI platforms and backend services, improving development velocity and system consistency.
- Worked with event-driven architecture and streaming patterns to support high-throughput transaction and notification systems.
- Improved system performance and reduced latency across key customer journeys.
- Led delivery of regulatory initiatives and international platform launches with measurable revenue impact.
- Built analytics, observability, and operational tooling to support production systems.
- Managed incident response, production support, and system reliability improvements.
- Mentored engineers and managers, strengthening technical depth and leadership capability across teams.

CSC (Computer Sciences Corporation) - PayPal

Senior Software Engineer | 2006–2011

- Built enterprise web applications integrating frontend interfaces with Java-based backend services.
- Contributed to large-scale client implementations and production support activities.

Education

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- Master of Computer Science Applications (MCA), Anna University (June 2003 - June 2006)
 - Bachelor of Computer Applications (BCA), University of Madras (June 2000 - June 2003)