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Top Skills

Large Language Models (LLM)
Fine tuning LLM
Retrieval-Augmented Generation (RAG)

Certifications

Berkeley Program Management Program
Vibe Coding 101 with Replit
Google Cloud Platform Fundamentals: Core Infrastructure
AI Agents in LangGraph

Harshit Gulati

Senior Engineering Manager | Generative AI Enthusiast & Full-Stack Expert | Problem Solver
San Francisco Bay Area

Summary

Driving innovation and building high-performance teams are my core passions. As an Engineering Manager with over 6 years of leadership experience and 13+ years in software engineering, I'm committed to creating cutting-edge solutions that drive business success while fostering a culture of collaboration and growth within my teams.

My journey began as a software engineer, where I honed my technical skills and problem-solving abilities. Over the years, I transitioned into management, where I discovered my true calling: leading diverse teams to deliver impactful products. Currently, I lead a team of 15 engineers at Applied Materials, working on a product designed to optimize supply chain operations.

What excites me most is solving complex technical challenges while empowering my team to innovate and grow. I thrive on creating an environment where engineers feel motivated to excel, collaborate, and continuously learn. Whether through mentoring, process improvement, or technical leadership, I aim to build high-performing teams that deliver tangible results.

The impact I've had so far speaks to my approach— driving not only product innovation but also fostering a positive team culture. Through strategic leadership and a focus on talent development, my team consistently meets key milestones and delivers high-quality solutions that make a difference.

I'm driven by a deep passion for building teams that achieve excellence. As technology continues to evolve, I'm committed to staying ahead of the curve, pushing boundaries, and developing solutions that create lasting value.

Experience

Applied Materials

4 years 5 months

Senior Engineering Manager

January 2024 - Present (1 year 6 months)

Santa Clara, California, United States

Led a team of 12 engineers to architect and develop a predictive supply chain platform, effectively addressing the predicted disparity between customer demands and the organization's production capacity.

- The implemented solution extended visibility up to eight quarters, allowing the supply chain organization to plan more effectively in the long term. This resulted in a significant reduction in failed tool builds, which were previously caused by shortages of necessary components.
- Collaborated with a diverse group of stakeholders from Supply chain operations, product management, and engineering to establish strategic initiatives, set ambitious goals, plan for optimal resource utilization, and execute all required deliverables.
- Strategically expanded the team from 6 to 12 engineers, optimizing talent acquisition to meet evolving company demands.
- Proactively identified and mitigated technical risks, reducing project delays by 40% and ensuring smooth delivery of high-impact supply chain solutions
- Fostered a positive and collaborative team culture, resulting in higher employee satisfaction score and retention rates.

Engineering Manager

February 2021 - January 2024 (3 years)

Santa Clara, California, United States

Managed a team of 8 engineers to develop and scale Applied Materials' cloud-based Learning platform, serving 30,000 employees globally.

- Transformed a struggling team into a top performer by identifying gaps, implementing process changes, promoting knowledge sharing, and celebrating successes.
- Designed and implemented a long-term technology roadmap, integrating cloud-native solutions and scalable architecture to improve performance and reduce system downtime by 25%
- Optimized Agile processes, increasing sprint velocity by 70% and reducing deployment time by 50% through automation and DevOps best practices.
- Mentored and coached engineers, leading to 3 promotions within the team.

Visa

5 years 2 months

Technical Team Lead

February 2018 - February 2021 (3 years 1 month)

Foster City

Led a high-impact development team to enhance Visa's online service availability during critical incidents, implementing real-time monitoring and automated solutions to minimize downtime and improve resilience

- Designed and developed critical incident management applications using React, Node.js, Java, and PostgreSQL, Graph DB reducing Mean Time to Resolve (MTTR) for Severity 0 issues by 25% and improving Visa's system uptime.
- Conducted thorough code reviews, identifying and addressing potential issues before the impact.
- Established and enforced coding standards and best practices, improving code quality and reducing technical debt.
- Fostered a collaborative team environment, encouraging knowledge sharing and promoting a culture of continuous learning.
- Built a high-performing team with diverse skill sets, capable of tackling complex technical challenges.

Senior Software Engineer

January 2016 - February 2018 (2 years 2 months)

San Francisco Bay Area

Developed an application that helps the Incident Resolution Team manage and resolve monitored alerts on a centralized platform, streamlining the incident resolution process and reducing the resolution time by 45%.

- Worked closely with product managers, designers, and QA teams to deliver high-quality software products.
- Wrote clear and concise technical documentation, facilitating knowledge sharing and collaboration among team members.

Visa

Software Developer Intern

May 2015 - August 2015 (4 months)

San Francisco Bay Area

- Developed an application for self-service automation, enabling enrollment and deployment of new automations on the server.
- Implemented monitoring features for current automations and provided analytics through graphs for user insights.

Infosys

Software Engineer

August 2012 - July 2014 (2 years)

Hyderabad Area, India

- Developed a server health monitoring application for Telstra Australia, reducing downtime by 20%.
- Automated manual tasks using Java and shell scripts, improving efficiency and productivity.
- Utilized HTML, CSS, jQuery for frontend and Java for backend development.

Education

University of Southern California

Master's Degree, Computer Science · (2014 - 2015)

Guru Gobind Singh Indraprastha University

Bachelor's Degree, Electrical, Electronics and Communications Engineering · (2008 - 2012)