

Kamal Kumar

Engineering Manager

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Professional Summary

Security-focused Engineering Manager with over 23 years of experience leading application security, infrastructure security, and vulnerability management programs at scale. Proven track record building security automation platforms, driving “shift left” security initiatives, and establishing threat modeling and secure design review processes. Deep expertise in cloud security (AWS, Azure, Kubernetes, Docker), endpoint and database security, and AI/ML security. Committed to building high-performing security teams with a collaborative, low-ego leadership approach.

Employment History

Mar 2022 – Present
Bellevue, WA

Staff Engineering Manager, Tesla

- Led security engineering teams building endpoint security, infrastructure security, database security, and a threat intelligence platform for proactive threat detection across cloud and on-premises environments
- Built DataCraft, a Databricks-like platform running Spark on Kubernetes with integrated secret management; delivered a cloud security compliance platform ensuring 24/7 monitoring, threat detection, and automated remediation
- Drove “shift left” security initiatives by embedding automated security scanning into CI/CD pipelines; established threat modeling, secure design reviews, and security code review processes across engineering teams
- Built an AI-powered helpdesk platform using LLMs to learn from mailboxes, Confluence, and policy documents to autopilot support operations; designed centralized security data strategy powering RAG-based assistants helping teams remediate vulnerabilities

Jun 2015 – Mar 2022
Redmond, WA

Principal Architect, T-Mobile

- Architected and built PacBot (Policy as Code Bot), an open-source cloud security and compliance automation platform for continuous vulnerability management and policy enforcement at scale
- Designed automated security policy enforcement enabling engineering teams to self-serve security compliance across cloud infrastructure (AWS, Kubernetes, Docker)
- Established end-to-end vulnerability management programs including automated scanning, risk-based prioritization, and remediation tracking across application and infrastructure layers
- Transformed compliance tracking from manual processes to real-time cloud-native monitoring, providing security posture visibility across hundreds of cloud accounts
- Managed and mentored a team of 40 engineers and architects, fostering cross-functional collaboration with product and platform teams

Sep 2012 – Jun 2015
India

Co-Founder/CTO, Infoicon Technologies PVT LTD

- Led strategic technology innovations and managed end-to-end product development
- Enhanced project delivery by nurturing a collaborative tech environment
- Increased efficiency by implementing agile methodologies
- Deployed cutting-edge technologies, leading to significant productivity boost
- Streamlined project delivery processes through effective cross-functional team leadership

Oct 2009 – Sep 2012
India

Associate Technical Manager & System Architect, HCL Technologies

- Spearheaded large-scale E-Commerce system design and development
- Optimized workflow, boosting team productivity by 20%
- Managed and mentored a team of 60+ developers and architects

Jun 2008 – Oct 2009
India

Product Engineer, Core Objects Pvt Ltd

- Established team goals and designed a visionary technical roadmap
- Fostered individual development through regular feedback and coaching
- Upheld code quality by enforcing best practices and guidelines

Jul 2006 – Jun 2008
India

Senior Consultant, SAP Labs

- Set decisive team priorities to drive organizational success
- Designed a future-focused technical roadmap
- Solved complex problems through system design

Aug 2003 – May 2006
India

Senior Software Engineer, Newgen Software Technologies

- Established and communicated strategic priorities aligning with organizational goals
- Provided continuous performance feedback and coaching to engineering team
- Designed and evolved technical vision and roadmap to meet future needs

Education

2020
India

MCA, Gurukul Kangri University

Masters in Computer Application

Courses

Jan 2019 – Dec 2019

Certificate in Machine Learning at University of Washington

Nov 2021 – Jan 2022

Data Strategy – Leveraging Data as a Competitive Advantage at UC Berkeley, Haas School of Business

Mar 2020 – Jun 2020

Business Analytics at Harvard Business School Online

May 2024 – Jul 2024

Engineering Leadership at E-Cornell University

Skills

- **Engineering Management** – Expert
- **Application Security** – Expert
- **Infrastructure Security** – Expert
- **Vulnerability Management** – Expert
- **Threat Modeling** – Expert
- **Cloud Security (AWS/Azure)** – Expert
- **Kubernetes / Docker** – Experienced
- **System Design** – Expert
- **AI / ML Security** – Skillful
- **Agile / Scrum** – Expert