

Neilesh Desai

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Senior Software Engineering Management

Dynamic Software Engineering Manager with 20+ years of experience leading high-performing engineering teams, designing scalable software architectures, and driving full lifecycle development. Expertise in cloud computing, microservices, DevOps, and Agile methodologies to accelerate delivery and enhance system reliability. Adept at mentoring teams, optimizing processes, and aligning technology solutions with business goals.

Specialties

- Software Development & Architecture
 - Data Structures (Elastic Search)
 - Engineering Team Leadership & Mentorship
 - Scalable System Design & Cloud Solutions
 - Microservices & API Development
 - Agile & Scrum Best Practices
 - DevOps, CI/CD & Automation
 - Risk Management & Technical Debt Reduction
 - Cross-Functional Collaboration
 - Mentor/Hire/Develop Teams
 - Global Partnership and Development
 - Artificial Intelligence Development Integration
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Technical Proficiencies

- Cloud & DevOps: Azure, Kubernetes (AKS), Terraform, Docker, CI/CD Pipelines (Jenkins), Spring Boot
 - Programming & Scripting: Python, C#, Java, React, Node.js, Typescript
 - Data & Analytics: MongoDB, SQL, Postgres, Kafka, RabbitMQ, TensorFlow
 - Software Development Tools: Jira, Confluence, Azure DevOps, Git, Jenkins
 - Machine Learning & AI: Decision Trees, CNNs, Transformer Models
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Gap Inc.

Senior Software Engineering Manager | 2021 - 2023 | San Francisco, CA

- Led the architecture and development of Global Buy Planning Services, ensuring scalable, cloud-native solutions on Azure Kubernetes Service (AKS).
- Transformed engineering processes by implementing Agile methodologies and DevOps practices, accelerating feature releases by 30%.
- Managed high-performing engineering teams, mentoring junior developers and cultivating a culture of innovation and collaboration across the US, South America, and India.
- Optimized reporting engines, leveraging RabbitMQ, Kafka, Postgres, and Java Spring Boot, to enable real-time analytics for supply chain stakeholders.
- Drove cross-functional alignment, collaborating with product managers, architects, and executive leadership to define and execute technology roadmaps.

Gap Inc.

Software Engineering Manager | 2017 - 2021 | San Francisco, CA

- Led the migration to Azure Cloud, implementing scalable microservices and ensuring zero-downtime deployment for receipt management systems.
- Architected and deployed microservices, leveraging C#, .NET, and MongoDB to modernize legacy applications and enhance system performance.
- Implemented CI/CD pipelines, reducing deployment cycles and increasing system reliability by automating infrastructure provisioning with Terraform.
- Championed Agile best practices, introducing sprint retrospectives, backlog grooming, and iterative development for continuous improvement.

GAP Inc.

Staff Engineer | 2015 - 2017 | San Francisco, CA

- Designed and implemented a robust Publishing Service to streamline data flow between Planning and Sourcing teams, ensuring seamless integration and usability for development product teams and customer-facing applications.
- Optimized system architecture by decomposing a monolithic receipt service, introducing scalable and secure Sizing and Packing microservices, which enhanced system performance, improved operational efficiency, and exceeded business SLAs during key milestones.

Broadcom

Software Engineering Manager to Director | 2009 - 2015 | Santa Clara, CA

- Led a global engineering team in developing and delivering enterprise Application Performance Management (APM) solutions with budgets exceeding \$100M.
- Oversaw major software releases, ensuring on-time delivery and seamless deployment across global customer bases.
- Collaborated with sales and customers, gathering requirements and incorporating market-driven features into APM products. Served as an APMN representative in the annual development exchange conferences with sales and customers.
- Optimized system performance, reducing latency and improving transaction monitoring capabilities using Java and .NET technologies.

Broadcom

Software Engineering Developer | 2006 - 2009 | South San Francisco, CA

- Developed monitoring solutions, integrating business transaction logic to enhance performance tracking in distributed applications.
 - Optimized memory management, reducing overhead in Java and .NET agent applications for large-scale deployments.
 - Built agent frameworks, converting java agent code to C# using native byte code.
 - Enhanced skills of the India development team by providing product domain and technical knowledge through mentorship. Integrated platform specific features as agent extensions.
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Machine Learning & AI Projects

University of Texas, Austin | 2023 - 2024

- Developed a Support Ticket Categorization System, automating ticket classification using Python, Transformers, TensorFlow, Hugging Face.
 - Built an Image Classification Model to optimize agricultural processes, leveraging CNNs and VGG16 architecture.
 - Created a Customer Churn Prediction Model, using Random Forest, GBM, and Decision Trees to improve retention strategies.
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Education & Certifications

- University of California, Davis – B.S. Computer Science Engineering
 - University of Texas, Austin – Certification in AI/Machine Learning: <https://eportfolio.mygreatlearning.com/neil-desai>
 - University of Massachusetts – PMP & Agile Scrum Certification
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Patents & Publications

- United States Patent 20110258209 – Rule Organization for Efficient Transaction Pattern Matching