

# BALDEEP SINGH KWATRA

## AI-FIRST ENGINEERING LEADER & PRODUCT BUILDER

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### EXECUTIVE PROFILE

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Hands-on engineering leader building AI products and platforms, developing engineers and managers, and owning global engineering budgets. Combines architecture, implementation and production operations with human-reviewed AI development and business-focused technical decisions.

### CORE LEADERSHIP & TECHNICAL STRENGTHS

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AI-assisted software delivery • Full-stack architecture • Production AI/VLM pipelines • Cloud-native platforms • Kubernetes / Terraform • Engineering budgets & FinOps • Manager-of-managers leadership • Security & governance • Developer experience • Organizational design

### PROFESSIONAL EXPERIENCE

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#### Tractable

Noida, India

Director of Engineering

Jul 2025–Present

- Designed and built **LumaScanner**'s TypeScript-based AI vehicle-inspection platform, from frontend and backend to AI inference, AWS infrastructure and deployment. Delivered an **MVP in 2 weeks** and an initial production launch in 4 weeks using AI-assisted development.
- Built the video-processing and assessment pipeline with Temporal for durable workflow orchestration, covering frame selection, panel segmentation, damage classification and repair estimates. Achieved 99.99% platform availability over a one-month measurement period.
- Developed proprietary-model and Gemini-based inference paths with labeled-data evaluation and precision/recall comparisons. Own the technical roadmap and implement major capabilities, including notifications, reporting and customer integrations.
- Established AI-assisted development with human-reviewed plans, independent code review, local pre-PR checks and CI quality gates. Automated Kubernetes deployments; continue to write code and mentor engineers.
- Own global engineering budgets, infrastructure spending and vendor approvals. Led optimization that reduced company-wide Tractable infrastructure expenditure by approximately 30%.
- Established Tractable's India Development Centre and grew it from **0 to 36 engineers** in four months. Reduced time-to-hire by 40%, set hiring standards and led early recruitment and onboarding.

#### FarEye

Noida, India

Senior Engineering Manager (Apr 2024–Jun 2025)

Apr 2020–Jun 2025

Engineering Manager (Jun 2022–Mar 2024)

Technical Lead (Apr 2020–Jun 2022)

- Conceived and built FarEye's first company-wide Kubernetes-based product: reusable, independently deployable connectors for API calls, polling, webhooks and file transfers. Replaced monolithic integrations and reduced onboarding time by a reported **87%**.
- Led **40+ engineers** through **four engineering managers** and a principal-level engineer across Integration, DevOps, SRE and Platform Engineering. Established SRE capability, developed Platform Engineering from DevOps, and mentored engineers into leadership roles.
- Owned company-wide AWS infrastructure spending and vendor decisions. Led optimization delivering approximately **\$1M in annual savings** through Graviton, Spot Instances, Karpenter, rightsizing and purchasing decisions.
- Built a self-service **internal developer platform** for releases, configuration and deployments. Led Kubernetes upgrades and autoscaling across AWS, GCP, Azure and Oracle Cloud, with round-the-clock monitoring, distributed tracing, alerting and production diagnosis.
- Led cloud security and governance modernization through infrastructure as code, access controls and standardized provisioning.
- Owned annual and quarterly technology roadmaps with the CTO and product leadership. Supported enterprise sales through solution architecture presentations and responses to requests for proposals (RFPs).

## EARLIER ENGINEERING & FOUNDER EXPERIENCE

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### Contata Solutions

Senior System Analyst

Sep 2018–Apr 2020

- Built Worbix marketing automation and analytics features spanning social publishing, email scheduling and integrations, using AWS serverless services, Vue.js and Spring Boot.

### Mindfire Solutions

Senior Software Engineer

Mar 2016–Aug 2018

- Developed multi-tenant SaaS applications and telecom business-intelligence / ETL solutions using Java, Spring, Hibernate, MySQL and Jasper tools.

### Wipro Technologies

Project Engineer

Jun 2015–Mar 2016

- Automated defense and telecom workflows using Java and IBM Rational Functional Tester.

### DRIKU

Founder & CTO

Jan 2012–May 2015

- Founded and developed a mobile/web on-demand chauffeur platform serving **2,000+ customers** in Delhi; designed reusable architecture for adjacent on-demand services.

## TECHNICAL TOOLKIT

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**Languages & architecture:** TypeScript, JavaScript, Vue.js, Angular, React, Java, Node.js, Spring Boot, Go, GraalVM, microservices, REST APIs, event-driven systems, monorepos, distributed systems.

**Cloud, platform & delivery:** AWS, GCP, Azure, Oracle Cloud, Kubernetes (EKS/GKE), Karpenter, Helm, Terraform, Docker, GitHub Actions, self-hosted runners, GitOps, CI/CD, Dependabot.

**Data, workflows & observability:** PostgreSQL, Redshift, Redis, Kafka, RabbitMQ, Elasticsearch, Temporal, S3, Grafana, Loki, Tempo, Prometheus.

**Applied AI & engineering practices:** Gemini/VLM inference, model evaluation, human-in-the-loop quality, Claude/Cursor/Copilot/Codex-assisted development, agentic code review, secure SDLC.

## SELECTED RECOGNITION & PUBLICATIONS

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- Featured in [AWS's FarEye customer case study](#) on cloud optimization
- Led the FarEye team that received [Best DevOps Team of the Year \(Logistics\)](#), India DevOps Show 2023
- Received FarEye [Profit Powerhouse](#) and innovation awards
- Guest author of Strapi's "[Why I moved from Drupal to Strapi – A user story.](#)"

## EDUCATION

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B.Tech, Computer Science | Amity University, Noida | 2015