

# SOMNATH GHOSH

Engineering Manager | Platform & Modernization | AI Augmented Systems  
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## PROFESSIONAL SUMMARY

Engineering Manager with 10+ years of experience delivering large-scale backend platforms, leading cross-functional teams, and modernizing legacy systems into cloud-native architectures. Proven record in microservices, event-driven systems, AWS/GCP platforms, and operational excellence. Currently leading adoption of AI-augmented engineering workflows and designing AI-agent-based validation systems for non-deterministic use cases. Strong focus on reliability, cost control, and developer productivity.

## CORE SKILLS

**Engineering Leadership:** Engineering Management, Team Building, Hiring, Performance Management, Agile & SAFe 6.0, Technical Roadmapping, Cross-Team Coordination.

**Architecture & Platforms:** Microservices, Event-Driven Architecture, Serverless Systems, Distributed Systems, System Design, API Design, Message Queues (SQS, RabbitMQ).

**Cloud & DevOps:** AWS (Lambda, ECS, Fargate, S3, RDS, SQS), GCP (Pub/Sub, GKE), Docker, Terraform, CI/CD Pipelines, Observability (Datadog).

**Backend & Data:** Python (Django, Flask), Node.js, PHP, SQL (MySQL, PostgreSQL), NoSQL (MongoDB, Redis), Spark, Celery.

**AI-Augmented Engineering & Applied LLMs:** AI-assisted development workflows, Applied LLM usage, Prompt Engineering, Local and Custom LLM Experimentation, Third-Party AI Service Integration, AI-Agent Workflow Design (In Progress).

## PROFESSIONAL EXPERIENCE

### Clarivate Analytics

#### Associate Manager, Software Engineering | Apr 2023 – Present

Lead the Alexander Street Back-Office platform comprising 8+ applications supporting content automation and video processing. Built and scaled the India engineering team from scratch by closing 5 critical QA and development roles within 3 months. Reduced critical production incidents by 83 percent by establishing service ownership, improving observability, and enforcing quality standards. Increased sprint velocity from 12 to 29 story points through Scrum process optimization and backlog discipline. Designed the multi-year technology roadmap aligned with platform modernization and operational stability goals. Led adoption of AI-assisted engineering workflows to accelerate code reviews, refactoring, documentation, and incident analysis.

**Key Initiatives:** Led migration from RabbitMQ to Amazon SQS by designing a parallel broker architecture compatible with Celery. Directed enterprise-wide MySQL migration from version 5.x to 8.x with zero downtime and archival strategies reclaiming 66 GB of storage. Implemented Datadog-based observability reducing issue detection time from weeks to days. Led integration of third-party AI services for automated video chapterization within a Lambda-based processing pipeline. Currently leading design and experimentation of AI-agent-based validation workflows (in progress).

## **Trica (Let's Venture)**

### **Engineering Manager | Jul 2022 – Mar 2023**

Managed 31 engineers across 3 parallel squads building a B2B SaaS platform serving 900+ enterprise customers. Balanced delivery execution with cost-cutting initiatives while maintaining performance appraisals and team morale. Led architectural decisions around microservices and micro-frontend adoption to support parallel development at scale.

**Platform Highlights:** Designed containerized microservices deployed on AWS ECS and Fargate. Implemented multi-cluster MongoDB Atlas architecture for high availability. Adopted micro-frontend architecture using bit.dev for frontend modularity.

## **Hashedin by Deloitte**

### **Senior Engineering Management Specialist | Jul 2019 – Jul 2022**

Led delivery teams of 25+ engineers across enterprise and SaaS engagements. Acted as career advisor and mentor for 30+ professionals and participated in 6+ appraisal cycles. Recognized with 3 Spot Awards for leadership and delivery excellence.

**Representative Projects:** Krish-e / Trringo – Designed hybrid cloud architecture using AWS and GCP with GCP Pub/Sub for asynchronous workflows. Pidilite Field Manager – Unified multiple mobile and web applications into a single backend with real-time Salesforce synchronization. Healthcare Vendor Management POC – Built a serverless microservice architecture using AWS Lambda with fine-grained access control.

## **Healthplix Technologies**

### **Senior Software Developer | Sep 2018 – Jul 2019**

Introduced Node.js and MongoDB into the engineering stack. Built Spark-based data pipelines to extract, transform, and load data from MySQL to MongoDB. Contributed to applied ML recommendation systems assisting doctors with prescription suggestions.

## **Nreach Online Services (Xoxoday)**

### **Software Engineer → Senior Engineer | Sep 2015 – Sep 2018**

Progressed from individual contributor to technical lead managing a team of 5 engineers. Led phased migration from monolithic systems to microservices and trained junior developers on backend architecture and best practices.

## **EDUCATION & CERTIFICATIONS**

Bachelor of Technology (Computer Science & Engineering), Calcutta Institute of Technology (2011 – 2015).

SAFe 6.0 Certified Scrum Master (2025).

## **AWARDS**

Shining Star Award – Xoxoday. Leadership Spot Awards (3x) – Deloitte.

## **PERSONAL PROJECTS**

eWise Academy – Co-founded an offline education academy scaling to 50+ students; later digitized using Vue.js and WebRTC.

Alankar – Built a custom e-commerce platform for a family jewelry business.

Habit Builder – Developing a productivity application exploring modern workflow and behavior-tracking patterns.