Aman Preet Singh Dalmi

Lead DevOps Engineer

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SUMMARY

Lead DevOps engineer with 18+ years across software and infrastructure. At Amélio Inc., replaced a manual RDP-based deployment process with Azure DevOps pipelines across four environments, built the observability stack from nothing, and took over production incident response. A decade on AWS before Azure.

CORE SKILLS

- **CI/CD & automation:** Azure DevOps Pipelines (Classic Release, self-hosted agents), PowerShell, Pester, Terraform, Docker, dependency scanning
- **Azure:** VMs, App Service, Key Vault, App Configuration, Bastion, Privileged Identity Management, private VNets and endpoints, Azure Monitor, KQL
- **Observability:** Prometheus, Grafana, Loki, Alloy, Windows Exporter, Application Insights, alerting, runbooks
- **Platforms & data:** IIS, Windows Server, PostgreSQL, MongoDB, Redis, RabbitMQ
- **AWS (2015–2025, before Azure):** EC2, Lambda, RDS, Elastic Beanstalk, S3, CloudFront, IAM
- **Engineering:** TDD, Docker integration testing, Cypress, JavaScript, TypeScript, Node.js, React, Angular, Git, AI-assisted development workflows
- **Kubernetes:** KCNA certified; hands-on practice via Minikube, not yet production

PROFESSIONAL EXPERIENCE

Lead DevOps & SRE

CodeJi Infotech Pvt. Limited — delivered for Amélio Inc., a Canada-based SaaS company · Remote · May 2025 – Present

- Replaced a manual, RDP-based deployment process with Azure DevOps pipelines covering Develop, Stage, UAT and Production. Builds run in 8–10 minutes across parallel agents, with approval gates on protected environments and dependency scanning on every repository.
- Built a self-service environment-cloning system in PowerShell, tested with Pester, that provisions an isolated IIS, PostgreSQL, Redis, MongoDB, RabbitMQ, scheduler, Identity Server and Cloudflare DNS stack per feature. Supports 15–20 concurrent environments and removed 10–12 manual steps.
- Stood up observability from zero: Prometheus, Grafana and Loki across every environment, plus Application Insights and KQL. 7 dashboards and 21 alerts covering 2 Azure VMs and 2 App Services.
- Fixed recurring production failures. Capped MongoDB's WiredTiger cache so it stopped starving a shared VM, corrected an IIS Preload setting behind RabbitMQ message-acknowledgment failures, and ended random patch-driven reboots with scheduled Azure Maintenance windows.
- A Grafana alert caught a MongoDB data drive filling with stale backup archives in time to clear it before an outage.
- Moved hardcoded secrets out of appsettings.json into Azure Key Vault and App Configuration, restricted access through Bastion and Privileged Identity Management, and placed resources behind private VNets and endpoints.
- Ran a disaster-recovery rehearsal with Terraform, rebuilding the UAT environment in a second Azure region and tearing it down afterwards.
- Started the team on test-driven development, with Docker-based integration tests and Cypress end-to-end runs on Azure agents.
- Supported a ~20-person engineering team and helped move it onto an AI-assisted development workflow, including automation that reconstructs a full PR-to-deployment timeline.

Technical Manager

Team Computers — for client Verdethos · Remote · Feb 2025 – May 2025

- Led a cross-functional team of ~12 building a supply-chain platform handling multiple commodities.
- Moved workloads to AWS Lambda to cut cost and improve response times, and designed the multi-tenant infrastructure underneath.
- Built the CI/CD pipelines for the platform.
- Delivered demand-forecasting features that fed purchasing and planning decisions.

Software Consultant (Independent)

Remote · Jul 2023 – Feb 2025

- Built a test-series exam-preparation platform on AWS for JMDi Academy, Dehradun, serving marine students preparing for IMUCET. Started as a web app with scoring and analytics for admins and moderators, later rebuilt as a React Native mobile app.

Head of Product and Engineering / Head of Engineering

KOCO — EdTech startup, Singapore · Remote · Feb 2020 – Jul 2023

- Led technical direction and architecture for a team of ~15: developers, QAs, designers and game developers. Introduced code review and agile delivery; ran the platform on AWS.
- Promoted to Head of Product and Engineering in Mar 2023, adding product strategy to the technical remit.

Software Engineering (Independent)

Remote · May 2019 – Jan 2020

- Independent web and application development engagements between full-time roles.

Software Engineering Manager

smartData Enterprises Inc. — services and consulting · Dehradun, India · Apr 2015 – Apr 2019

- Ran 5 concurrent client projects and their teams across healthcare, EdTech and e-commerce, bridging engineering delivery and client objectives.

Early Career (2008 – 2015)

- **Software Developer, GBKC Fashions Pvt. Ltd.** — Dehradun (Nov 2011 – Mar 2015): sole engineer in a manufacturing business; built payroll, attendance and HR systems, plus merchandising and inventory tooling.
- **Junior Software Developer, Infotech Consultants** — Dehradun (May 2008 – Nov 2011): built PHP, MySQL and WordPress applications; led a team of 4.

EDUCATION

Bachelor of Technology, Electronics & Communication — DIT University (2003–2007)

CERTIFICATIONS

- AZ-104 (Microsoft Certified: Azure Administrator Associate)
- KCNA (Kubernetes and Cloud Native Associate)
- AWS Certified Cloud Practitioner
- AWS Certified AI Practitioner

COMMUNITY & CONTINUOUS LEARNING

- Completed a 16-week Applied AI Engineering cohort (aiengg.dev) covering MCP, RAG, vector databases, agents, evaluation and transformers (June 2026).
- Six technical talks between 2023 and 2026 at GDG Dehradun (DevFest, I/O Extended), Doon Tech Meetup and local developer events, on NestJS, Docker and Kubernetes, RAG, and Ansible. Mentors junior engineers online and offline.