

DEVANG GOYAL

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PROFESSIONAL SUMMARY

Results-driven **SRE & Cloud Engineer** with extensive experience architecting, automating, and operating **mission-critical infrastructure** at scale across **Azure** and **AWS**. Proven ability to deliver measurable cost reductions, security hardening via **zero-trust network design**, and reliability improvements across **financial-grade production platforms**. Deep expertise in **container orchestration**, **infrastructure as code**, **CI/CD pipelines**, and **distributed observability**—consistently driving **zero-downtime deployments**, incident reduction, and platform modernization at enterprise scale.

WORK EXPERIENCE

BitFlyer | Site Reliability Engineer

Nov 2024 – Present

- Built an **Azure Functions**–driven data archival pipeline to migrate **~600 GB** of high-growth tables from **Azure SQL Business Critical** to **Hyperscale** tier, relieving primary database capacity pressure, preventing the **4 TiB** storage ceiling breach, and delivering **\$4,800/yr** in sustained cost savings.
- Deployed a unified observability stack—**Datadog** dashboards, **Sentry** error tracking, and **Azure Monitor** alerts—cutting incident detection time by **50%** and driving sustained **MTTR** improvements in production.
- Improved **EFCore.BulkExtensions** batch processing performance for **20M+ record** workloads by introducing checkpointing, configurable batch sizing, and retry mechanisms—cutting end-to-end pipeline processing time by **35%** and ensuring reliable throughput under heavy load.
- Led **.NET 8** runtime upgrades for all production **Azure Functions**, improving **cold-start latency** and execution efficiency by **25%** while maintaining backward compatibility across dependent services.
- Architected backend infrastructure for a full **customer-facing platform redesign**, designing **Azure App Services** topology with **RBAC**-enforced **Key Vault** and **Storage Account** access via **Service Endpoints** to enforce zero-trust service-to-service authentication across all APIs.
- Drove a **VNet integration** initiative to unify microservices running across **Azure App Services**, **Container Apps (ACA)**, and **Azure Functions**—migrating all database connectivity to **private Service Endpoints** on **Azure SQL Server**, introducing **firewall-based ACLs** eliminating public database exposure.
- Introduced **Azure Container Apps (ACA)** as the standard architecture for new microservices, leveraging **KEDA-based autoscaling** for more granular, event-driven scaling compared to Azure Functions; improved cold-start performance and reduced infrastructure cost for bursty workloads.
- Designed and implemented **OpenTelemetry**-based observability for the redesigned customer platform: instrumented **distributed traces**, metrics, and structured logs using the **OTel SDK**, routing all telemetry to **Datadog** to establish a vendor-agnostic, industry-standard observability foundation.
- Automated tenant-wide **Service Principal auditing** with **CI/CD pipelines** for centralized governance and proactive **Slack** alerts on **secret and certificate expiry**, eliminating all manual overhead.

- Delivered a **Terraform**-based identity governance framework for **Azure AD** users, groups, and **Service Principals**; standardized **RBAC** role assignments through code, eliminating manual permission grants and ensuring auditable, consistent access control across the tenant.
- Introduced **Privileged Identity Management (PIM)** for **Just-in-Time (JIT)** role elevation, eliminating all standing admin privileges and remediating over-provisioned permissions across the organization.
- Hardened the **Azure** network perimeter for critical services by enforcing **private endpoints**, **VNet integration**, **VPN-based developer access**, and **SAS-token scoped permissions** on storage—achieving strong security boundaries without impeding developer workflows.

Accenture Japan | SRE & Cloud Engineer

Mar 2022 – Oct 2024

- Managed the **full AKS cluster lifecycle**—upgrades, capacity planning, workload identity, **RBAC** hygiene, and priority classes; migrated to newer VM SKUs and consolidated node pools, saving **~\$12,960/yr** in infrastructure costs across production and staging.
- Developed **Slack Bolt** slash commands integrated with **Jira** to enable engineers to query tickets, create subtasks, and trigger release approvals without leaving Slack; reduced context-switching overhead and saved teams **5–7 hours per sprint**, cutting approval cycle time by **40%**.
- Implemented **multi-environment Terraform Cloud** workflows integrated with **Azure DevOps** VCS pipelines; enforced standardized module structures and dynamic environment tagging, reducing configuration drift and increasing overall deployment frequency by **~27%**.
- Codified full **AWS** environment stacks—**VPCs**, **NAT Gateways**, **ELB**, security groups, IAM roles—in **Terraform**, cutting provisioning time to under **10 minutes** and boosting deployment frequency by **27%**.
- Built and maintained **CI/CD pipelines** with **AWS CodePipeline** and **CodeBuild**; deployed containerized microservices to **ECR** and **ECS** using **zero-downtime** rolling update strategies across all environments.
- Automated the full **TLS/SSL certificate lifecycle** using the **ACME protocol** with **Let's Encrypt** and **GoDaddy**, eliminating manual rotation entirely and removing all risk of expiry-related outages.
- Deployed centralized logging and **CloudWatch** alarms with **automated autoscaling**, maintaining high availability during traffic spikes and delivering real-time anomaly alerts to on-call teams.
- Established **AWS–Azure site-to-site VPN** with **private endpoint** routing for **OpenAI** integrations, enabling secure and low-latency cross-cloud access for AI workloads without any public internet exposure.
- Enforced **AWS security** best practices across all accounts: blocked public **S3** bucket access, applied **KMS** encryption for data at rest, centralized secret management via **AWS Secrets Manager**, set up **VPC peering** for inter-account communication, and enforced **IAM least-privilege** policies.

Accenture Japan | Full Stack Engineer

Jan 2021 – Dec 2023

- Built and scaled a Vue.js SPA e-commerce platform handling **300M+** monthly visits, leading the frontend team through sprint planning, task allocation, and code reviews in an agile scrum environment.
- Authored reusable **Single File Components (SFC)** with **Pinia** state management, improving maintainability and ensuring predictable, reactive behavior across all user flows at scale.
- Deployed and operated resilient frontend microservices on **AWS ECS** with automated **CI/CD pipelines** and service-level **auto-scaling policies**, maintaining **zero downtime** across all production releases.

- Built a **.NET-based COBOL-to-Java** automated migration tool; analyzed conversion gaps and implemented all missing logic to ensure complete output fidelity across migration runs.
- Validated migration output by running converted **Java** applications against live mainframe results and authoring **JUnit** test suites to assert full output parity across all batch runs.

EDUCATION

M.Tech, Mechanical Engineering — Indian Institute of Technology (IIT), Kanpur, India GPA: **10/10**
2018–2020

B.Tech, Mechanical Engineering — Indian Institute of Technology (IIT), Kanpur, India GPA: **9.3/10**
2015–2018

TECHNICAL SKILLS

Cloud & IaC: AWS (EC2, ECS, ECR, S3, VPC, CloudWatch, CodePipeline, Secrets Manager, KMS, IAM), Azure (AKS, ACA, App Services, Azure Functions, Azure SQL, Key Vault, Monitor, PIM, VNet, Service Endpoints), **Terraform**, CloudFormation

DevOps & CI/CD: Kubernetes, Docker, GitHub Actions, Azure DevOps, KEDA, Cloudflare, Akamai

Observability: OpenTelemetry, Datadog, Sentry, PagerDuty, Azure Monitor, Application Insights, CloudWatch, Prometheus

Languages: Python, C#, Java, JavaScript/TypeScript, SQL, C/C++

Frontend/Backend: Node.js, .NET, Spring Boot, Vue.js, React, Tailwind CSS, MySQL

CERTIFICATIONS

- **AWS Certified DevOps Engineer – Professional** (Oct 2024)
- **AWS Certified Solutions Architect – Associate** (2024)
- **AWS Certified Developer – Associate** (2024)
- **AWS Certified SysOps Administrator – Associate** (2024)
- **AWS Certified Cloud Practitioner** (2023)
- **Microsoft Azure Fundamentals** (2024)
- **Japanese Language Proficiency Test – JLPT N3** (2024)