

# RAJIB MITRA

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## PROFESSIONAL SUMMARY

Staff Software Engineer at Okta specializing in architecting authentication and authorization services across multi-cloud environments (GCP/AWS). Expertise in Kubernetes, Istio, Crossplane, and GitOps for automated resource provisioning and resilient service deployment. Proven track record building scalable platforms managing over a billion requests per day with focus on reliability and operational efficiency.

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## OPEN SOURCE CONTRIBUTIONS

- **Kubernetes Organization Member** – Upstream contributor ([kubernetes/org#2954](https://kubernetes.org/#2954))
  - **LFX Mentorship** – Devfile project: Extended deployByDefault functionality
  - **Falco (Ex-Maintainer)** – Cloud-native runtime security project ([falcosecurity/falco](https://falcosecurity/falco))
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## PROFESSIONAL EXPERIENCE

### OKTA | Staff Software Engineer

May 2024 – Present | Remote

- Architected and managed **authentication/authorization infrastructure** serving **1B+ requests per day** across multi-cloud environment (GCP/AWS), ensuring 99.99% uptime for mission-critical identity services
- Designed and implemented **Istio service mesh** deployment across 50+ microservices, reducing inter-service latency by 35% and improving observability with distributed tracing
- Built custom **Crossplane-based platform abstractions** for automated multi-cloud resource provisioning, reducing deployment time from days to hours
- Established **incident response protocols** and participated in 24x7 on-call rotation, achieving MTTR reduction of 60%
- Implemented **GitOps workflows** with ArgoCD for worldwide service deployment across 15+ regions, enabling zero-downtime deployments
- Collaborated with security teams to enforce **mTLS policies** via Istio, achieving SOC2 and ISO 27001 compliance
- Conducted regular **performance tuning** and capacity planning, reducing cloud costs by 25%

**Key Technologies:** Go, Python, Kubernetes, Istio, Envoy, AWS, GCP, Crossplane, GitOps, Prometheus, OpenTelemetry

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## CISCO | Senior Software Engineer

**Mar 2023 – May 2024 | Bengaluru, India**

- Led platform development for Cisco's **PaaS offering** hosting business-critical applications on Anthos and OpenShift, serving 1000+ internal customers
- Architected and deployed **Istio-based service mesh** on hybrid cloud, implementing traffic management, circuit breaking, and fault injection for resilient microservices communication
- Developed **Custom Resource Definitions (CRDs)** in Go extending Kubernetes functionality, reducing operational overhead by 40%
- Built Cisco's largest **serverless offering** using Knative Serving/Eventing with Kafka, processing 10M+ events daily
- Engineered **observability platform** handling petabytes of telemetry data with OpenTelemetry Collector and Victoria Metrics
- Created **mutating webhooks** (pod-mutator) for automated security policy enforcement across Kubernetes clusters
- Implemented **GitOps practices** with ArgoCD for infrastructure management across multiple environments
- Led incident response for P1/P2 incidents, reducing MTTR by 45%

**Key Technologies:** Go, Kubernetes, Istio, Envoy, Knative, Anthos, OpenShift, Kafka, OpenTelemetry, Victoria Metrics, GitOps

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## ORACLE | Software Developer 3

**Jul 2020 – Feb 2022 | Bengaluru, India**

- Built **distributed telemetry ingestion layer** for Oracle SaaS platform, reducing RCA time by 40%
- Developed **SYSINT system**, Oracle's largest M.E.L.T aggregator serving 100+ SaaS teams using Fluentbit, Loki, and OpenTelemetry
- Architected **scalable monitoring systems** with Prometheus, Grafana, and Jaeger processing metrics from 5000+ hosts
- Implemented **Infrastructure as Code** with Terraform and Ansible for multi-region deployments
- Designed gRPC-based microservices in Go and Python for high-throughput log aggregation

**Key Technologies:** Go, Python, Kubernetes, Flux, Prometheus, Grafana, OpenTelemetry, Terraform, Ansible, Fluentbit

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## PwC | Principal Consultant

Mar 2022 – Feb 2023, Nov 2017 – Jul 2020 | Bengaluru, India

- Architected **Albatross**, a microservice enabler platform for hybrid cloud with complete CI/CD pipeline integration
- Implemented **Istio service mesh** demonstrating secure service-to-service communication via Kiali, enabling mTLS and advanced traffic management
- Established **security scanning infrastructure** integrating OWASP ZAP and Veracode SAST/DAST into CI pipelines
- Deployed **ELK stack** with multiple Beats for centralized logging and monitoring across 100+ services
- Implemented **Blue-Green and Canary deployment** strategies reducing production incidents by 50%
- Built cloud-native solutions with Terraform, ArgoCD, and Kubernetes for multi-account AWS environments
- Led cross-functional cloud-native team collaborating with US and UK teams

**Key Technologies:** Kubernetes, Istio, Terraform, ArgoCD, AWS, ELK Stack, CI/CD, Python

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## TERADATA | Software Engineer

Mar 2017 – Nov 2017

Developed dependency management system using Python, Neo4j, and Pandas for Teradata product compatibility matrix and automated version updates across systems.

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## ERICSSON | Software Engineer

Feb 2015 – Feb 2017

Managed 20+ production servers with automated deployment pipelines, administered Oracle/MySQL databases including RAC configurations, and deployed Ericsson Billing product.

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## EDUCATION

### Bachelor of Technology in Computer Science Engineering

Jalpaiguri Government Engineering College | CGPA: 7.77/10 | 2010 – 2014