

AMAN BIND

📞 +91 83051-48293 ✉ itsme@amanbind.com 🌐 [amanbind](https://amanbind.com) 🌐 [amanbind007](https://amanbind007.com) 🌐 amanbind.com

Experience

Tata Consultancy Services (Platform Solutions Unit)

Feb 2024 – Present

Systems Engineer – DevOps & Platform Engineering

Bengaluru, India

- Engineered advanced Jenkins CI/CD pipelines for 75+ microservices and 6+ frontend frameworks; reduced deployment downtime from **1 hour to 10 minutes** and rollback execution time to **under 30 seconds**.
- Led the end-to-end migration of legacy codebases from SVN to GitLab CE, defining branching models, continuous delivery workflows, and access permissions managed as infrastructure-as-code (IaC) via YAML.
- Designed automated self-healing loops utilizing Prometheus and Grafana alerts connected via webhooks to auto-clean build directories and purge stale backups when server storage consumption exceeded 70%.
- Pioneered a distributed tracing proof-of-concept (POC) leveraging OpenTelemetry, OTEL Collector, and OpenSearch for automated Root Cause Analysis (RCA), successfully integrating it into the core APM module.
- Managed a software license audit by implementing FlexNet Code Insight, evaluating dependency security scans, and refactoring codebases to replace restrictive GPL and commercial libraries.
- Evaluated Artifactory OSS, Nexus OSS and GitLab's package registry in a structured POC; standardized internal library and container distribution on GitLab CE to avoid operating a second platform with its own availability, backup and permission model.
- Replaced ad-hoc developer database access with a governed **Apache Superset** layer across DEV, UAT and PROD, integrating **GitLab OAuth** for SSO and enforcing row-level security, row/output limits, query timeouts and read-only roles; eliminated connection-pool exhaustion from unbounded ad-hoc queries.
- Built management reporting on Superset with curated dashboards for database performance and usage statistics, exposed to business users through restricted Gamma roles with no underlying database access.
- Implemented just-in-time database credentials using **Bytebase** and **pgbouncer**, replacing manually provisioned permanent users with a GitLab-authenticated request/approval flow issuing time-bound credentials that are revoked automatically on expiry, making every grant attributable and auditable.
- Initiated and architected the greenfield rewrite of the platform's mobile client using Flutter, establishing the core cross-platform codebase structure and navigation patterns.
- Conducted regular Knowledge Transfer (KT) sessions for developers and senior engineering leaders, and consulted internal product teams to help establish automated GitLab CI/CD architectures.

Tata Consultancy Services (Baxter Client Project)

June 2023 – Jan 2024

iOS & Cloud Developer

Bengaluru, India

- Designed and developed an internal native iOS application utilizing SwiftUI, delivering the end-to-end implementation within a 2-month timeline with low post-release defect rates.
- Supported AWS backend infrastructure tasks, configuring cloud resources to establish secure API integrations and serverless helper functions for the mobile client.

DataFlair WebServices Pvt. Ltd.

Jan 2023 – June 2023

Technical Intern

Indore, India

- Built 40+ educational and proof-of-concept software projects utilizing iOS (SwiftUI, UIKit, CoreData), Android, Django, Python, and Machine Learning integrations.
- Authored detailed technical reports and articles explaining project architectures, mobile UI guidelines, and engineering processes to developer audiences.

Selected Projects

Automated RCA & Distributed Tracing | *OpenTelemetry, OTEL Collector, OpenSearch* [Case Study](#)

- Delivered no-code observability across a 75+ microservice estate using OpenTelemetry auto-instrumentation, avoiding SDK adoption across every service.
- Correlated metrics, logs and traces on trace/span identity to produce automated first-pass RCA; the approach was subsequently implemented in the product's APM module.

Database Access Governance | *Apache Superset, Bytebase, pgbouncer, GitLab OAuth* [Case Study](#)

- Centralized DEV/UAT/PROD database access behind SSO with row-level security, output limits and read-only roles, removing standing credentials and producing a full audit trail.
- Added a just-in-time credential workflow so local development access is requested, approved, time-bound and automatically revoked.

Self-Hosted Infrastructure & Homelab | *Docker, Caddy, Keycloak, Terraform*

[Live Site](#)

- Operate a self-hosted service stack covering identity, reverse proxying, search and monitoring, with configuration managed as code for reproducible rebuilds.
- Personal site built with Astro and deployed to AWS S3/CloudFront via Terraform and GitHub Actions OIDC, with DNS managed in Cloudflare.

Education

Shri Vaishnav Vidyapeeth Vishwavidyalaya

June 2019 – July 2023

Bachelor of Technology, Computer Science – Specialization in iOS (AATCe), GPA: 8.75/10

Indore, India

• Coursework: Data Structures & Algorithms, Database Management Systems, Computer Networks, iOS Development

Technical Skills

Languages & Databases: Swift, Dart, Java, Python, C/C++, YAML, SQL, MongoDB, CoreData, SwiftData, Firestore

Cloud & DevOps: AWS, Cloudflare, Jenkins, GitLab CI/CD, GitOps, Argo CD, Docker, Kubernetes, Ansible, Terraform, Prometheus, Grafana, OpenTelemetry, OpenSearch

Automation & Orchestration: n8n, Apache Airflow, Jenkins Shared Libraries, Ansible, Celery, Webhooks, Bash/Python automation

GenAI & Agentic Systems: RAG pipelines, Vector databases (pgvector, Qdrant), Ollama, LangChain, Model Context Protocol (MCP), Agentic workflows, OpenAI/Anthropic APIs

Application Development: Flutter, SwiftUI, UIKit, Combine, Android (Kotlin/Java), Jetpack Compose, Android SDK/Gradle, CoreML, Vision, RESTful APIs

Data & Access Governance: PostgreSQL, pgbouncer, Bytebase, Apache Superset, GitLab OAuth/SSO, RBAC, Row-Level Security

Software & Tools: Git, SVN, GitLab Package & Container Registry, FlexNet Code Insight, SonarQube, Bytebase, pgbouncer, OpenProject, Xcode, Android Studio

Certifications

AWS Certified Solutions Architect – Professional <i>SAP-C02</i>	Credly
AWS Certified DevOps Engineer – Professional <i>DOP-C02</i>	Credly
AWS Certified Generative AI Developer – Professional <i>AIP-C01</i>	Credly
AWS Certified Solutions Architect – Associate <i>SAA-C03</i>	Credly
AWS Certified Developer – Associate <i>DVA-C02</i>	Credly
AWS Certified CloudOps Engineer – Associate <i>SOA-C03</i>	Credly