

VIJETA PRIYA

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[Linkedin](#) | [Codeforces](#) | [Github](#) | [Leetcode](#) | [Medium](#)
Software Engineer

EDUCATION

National Institute of Technology Agartala
Bachelor of Technology

Nov 2022 – June 2026
CGPA: 8.0

OPEN SOURCE CONTRIBUTIONS - REMOTE

GitLab Terraform Provider

Sept 2025

- Refactored token rotation logic into a shared **RotatableToken interface** for Project, Group, Personal and Service Account tokens, cutting repeated code and making fixes easier. [\[MR !2894\]](#)
- Added **gitlab group service account access tokens** data source so users can read group service account metadata without needing write permissions. [\[MR !2805\]](#)
- Created **gitlab project package dependency proxy** resource using GitLab's **GraphQL** API to let teams manage Maven registry proxy settings in Terraform. [\[MR !2802\]](#)
- Updated **DetermineExpiryDate** function to return proper validation info, preventing segfaults and improving error handling across all token resources. [\[MR !2722\]](#)
- Made project label renames work in-place by mapping to numeric IDs instead of triggering full resource replacement. [\[MR !2719\]](#)
- Built **gitlab artifact file** data source to download both text and binary CI/CD job artifacts directly through Terraform. [\[MR !2721\]](#)

Kubernetes

Jan 2026

- CAPA (AWS Provider) - Test Stability: Resolved flakiness in *TestROSANetworkReconciler* by implementing **Eventually assertions**. [\[MR !5861\]](#)
- Cluster API (CAPI) - Logic Fix: **Updated controller** to correctly remove finalizers during deletion if ownerRef was never set. [\[MR !13239\]](#)
- Cluster API (CAPI) - Observability / Security: **Added Kubernetes Events** for *automatic certificate rotation* in *KubeadmControlPlane*. [\[PR !13242\]](#)

ACHIEVEMENTS

- Ranked **332 AIR** and **1594 World Rank** in *Meta Hacker Cup 2024 in Round 1*. [🔗](#)
- **Codeforces : Specialist (1423+)** with **1000+** problems. [🔗](#)
- Published technical articles on distributed systems and backend engineering (**Medium**) [🔗](#)

PROJECTS

RideSync (Ride-Sharing Backend) — *gRPC, REST, OTel, RabbitMQ*

[Link](#) — [Docs](#) — [Code](#)

- Built a distributed logistics platform in Go with microservices, using **gRPC** for internal calls and **REST** for external clients behind a custom API Gateway.
- Implemented **carpooling so a driver can accept multiple overlapping rides based on available seats**, using path-overlap and dynamic seat patching to maximise vehicle utilisation.
- Designed the core matching engine with **MongoDB 2dsphere indexing** and **Atomic Compare-and-Swap (CAS)** at the database layer — prevented multiple drivers from accepting the same ride in high-traffic scenarios.
- Added real-time driver location sync with full end-to-end tracing through **OpenTelemetry** + **Jaeger** and custom **Context Propagation** over **RabbitMQ**, plus seat reservation/release on driver accept and payment completion.
- Built fault-tolerant dispatch using **RabbitMQ TTL** (120s), **Dead Letter Queues**, and a dedicated timeout consumer that sends instant “No Drivers Found” signals to riders via **WebSocket**
- Added a finance + audit subsystem (**RBAC/JWT gateway middleware**, Postgres ledger, Stripe Checkout + webhooks) with admin/business dashboards for revenue/regions/package insights.

Trading Low Latency System — *C++, Scalable, Modular, OOPs*

[Github](#) — [Docs](#)

- Built with **Factory Pattern** for full order lifecycle (place/modify/cancel), Added **chrono** + **spdlog** timers to measure CPU/memory vs latency; Added runtime **WebSocket** switch (**Boost** vs **Zsocketpp**); benchmarked with **Matplotlib** — Zsocket 9% faster than Boost.

TECHNICAL SKILLS

Languages & Backend: C++, Go (Golang), Python, SQL, Bash, REST, GraphQL, gRPC, Protobuf

Core Engineering: System Design (LLD/HLD), Distributed Microservices, Concurrency, SOLID Principles