Vijeta Priya

+91-8837360428 | vijeta004@gmail.com | Portfolio
Linkedin | Codeforces | Github | Leetcode

Backend & Distributed Systems Engineer — APIs — Microservices

Education

National Institute of Technology Agartala Nov 2022 – June 2026
Bachelor of Technology (Relevant CS coursework performed) *CGPA: 8.0*

Experience

GitLab Terraform Provider Sept 2025
Open Source Contributor - Infrastrusture as Code (IAC) *Remote*

- Fixed a logic flaw in the GitLab Terraform Provider by updating the DetermineExpiryDate signature to propagate return types correctly, ensuring callers handle potential nil values.[MR !2722]
- Developed the `gitlab_project_artifact` data source in **Go**, enabling programmatic access to **CI/CD artifact metadata** in Terraform. [MR !2721]
- Engineered the "Read" capability for **Group Service Account tokens** in the GitLab Terraform Provider, by allowing users to fetch metadata for tokens managed by the existing "Write" resource. [MR !2805]
- Introduced a new **Terraform resource** in **Go** utilizing **GitLab's GraphQL API** to manage package dependency proxy settings, allowing users to programmatically configure **external Maven registry authentication and enablement**. [MR !2802]
- Contributed a fix to the GitLab Terraform Provider that enables renaming project labels without triggering resource replacement, improving the safety of apply operations.[MR !2719]

Achievements

- Ranked **332 AIR** and **1594 World Rank** in *Meta Hacker Cup 2024 in Round 1.*
- Shubra Kar **LiFT**[Linux Foundational Training] Scholar 2025
- **Codeforces : Specialist (1423+)** with **100+** problems.
- **Medium Articles** to show techincal Documentation skills.
- FFE Scholar 2022-2026
- Secured Ranks -
  - Secured **1663** in *Codeforces Round 984 (Div. 3)*
  - Secured **2522** in *Codeforces Round 1008 (Div. 2)*

Projects

Ride-Sharing Microservices Backend — *gRPC/HTTP, Kubernetes, MongoDB, Stripe, Tilt* Github

- **Implemented** a **hybrid communication pattern** using gRPC for low-latency inter-service communication and REST for external clients, aggregated via a custom **API Gateway** to prevent 'noisy neighbor' latency issues.
- **Optimized** proximity-based driver matching by implementing **MongoDB 2dsphere geospatial indexing**, reducing query latency for radius searches across millions of simulated location points
- Integrated Stripe (payments) and OSRM (routing) using retries and environment-based configs.
- Engineered **fault-tolerant asynchronous workflows** using **RabbitMQ**; enforced **consumer idempotency** to handle 'at-least-once' delivery guarantees, ensuring zero duplicate payments/ bookings during network partitions.
- Instrumented distributed tracing via **OpenTelemetry and Jaeger** to visualize request propagation across microservices, reducing mean-time-to-resolution (MTTR) for cascading failures.

Trading Low Latency System — *C++, Scalable, Modular, OOP* Github — Documentation

- **Developed** a high-performance **C++** trading system with scalable and modular architecture, equipped with unit tests, functional tests, and performance telemetry.
- **Achieved 258ms latency** for trade events using **multithreading and shared memory IPC**; integrated Spdlog for benchmark logging and validated performance through unit and end-to-end tests.

TECHNICAL SKILLS

Languages: C++, Go (Golang), Python, SQL, Bash
Core Engineering: System Design (LLD/HLD), Distributed Microservices, Concurrency, Multithreading, OOP, SOLID Principles
Algorithms & Math: Dynamic Programming, Graph Theory, Combinatorics, Discrete Mathematics, Probability
Infrastructure & Tools: Kubernetes, Docker, Terraform, RabbitMQ, gRPC, OpenTelemetry, Jaeger, AWS/ GCP - IAM, EC3, S3 Bucket