Dhvani Bhesaniya
Software Developer

Ahmedabad, India

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Summary

Backend Developer with hands-on experience building and maintaining infrastructure-critical systems using Rust (Axum, Actix) and Node.js. Core contributor to a company-wide infra tech team, developing scalable APIs and services across multiple projects. Skilled in Kafka, Docker, GitHub, MongoDB, TiKV, and the ELK stack. Strong understanding of distributed systems, backend architecture, and writing clean, efficient, production-grade code.

Skills

Programming Languages: Rust, Java, Python, JavaScript
Backend Development: Node.js, Axum, Napi, Tokio, Polars
Databases & Storage: TiKV, Couchbase, Elasticsearch (ELK Stack), MongoDB, SQL, MinIO
Frontend Development: React.js, Next.js, HTML, CSS, JavaScript
DevOps & Tools: Docker, Kubernetes, GitHub, CI/CD (basic), Kafka

Education

B.Tech in Information Technology　　　　　　　　　　　　　　　　　　**2020 − 2024**
RK University, Rajkot　　　　　　　　　　　　　　　　　　　　　　　　*CGPA: 8.56 / 10*

Experience

Software Engineer　　　　　　　　　　　　　　　　　　　　　　**June 2025 − Present**
Inventyv Software Pvt. Ltd., Ahmedabad, India

- Lead backend development for infrastructure-level services using Rust (Axum, Actix) and Node.js, delivering scalable and reliable microservices.
- Integrated **Coraza WAF (ModSecurity)** as a WASM-based middleware for secure request inspection and blocking.
- Enhanced the internal core library `inventyv_datalayer_lib` by adding support for TiKV, Kafka, Elasticsearch, Couchbase, and MinIO with flexible, environment-driven configuration.
- Migrated legacy data-processing pipelines to high-performance Rust + Polars workflows, enabling analysis of **9M records in under 6 seconds**.
- Built and maintained multi-threaded producer-consumer workers and asynchronous APIs with fault-tolerant logic using Kafka and distributed storage.
- Led architecture discussions, code reviews, and deployment strategies for cross-functional teams; mentored junior developers on Rust, coding standards, and project planning.

Junior Software Engineer　　　　　　　　　　　　　　　　　**June 2024 − June 2025**
Inventyv Software Pvt. Ltd., Ahmedabad, India

- Core contributor to `inventyv_datalayer_lib`, a unified Rust/Node.js-based data access layer supporting TiKV, Couchbase, Elasticsearch, Kafka, and MinIO.
- Developed Rust-based microservices including a daily backup service and gRPC-powered replication service for secure, cluster-level data transfer.
- Implemented social authentication modules (Google, Facebook, Apple) with RBAC support, integrated across backend services.
- Worked on distributed system challenges including data consistency, failure recovery, and efficient message passing.
- Collaborated with teams to simplify infra setup and onboarding via reusable abstractions, improving delivery speed and maintainability.

Software Developer Intern　　　　　　　　　　　　　　　**December 2023 − June 2024**
Inventyv Software Pvt. Ltd., Ahmedabad, India

- Built Axum-based REST APIs for internal monitoring tools, integrating Elasticsearch for real-time data indexing and visualization.
- Designed and implemented a Rust service for XML parsing and validation of US tax data, converting JSON to schema-compliant XML with strict rule enforcement.
- Contributed to a Document Control System (DCS) used for managing SOPs, technical documentation, and internal tools.
- Gained strong foundations in Rust, backend API design, and team collaboration using GitHub and Agile workflows.

Projects

Inventyv DataLayer Library | *Rust, Node.js, TiKV, Couchbase, Elasticsearch, MinIO, Kafka, Docker*
- Core infrastructure library standardizing data access across services via unified Rust/Node.js adapters for TiKV, Kafka, Elasticsearch, Couchbase, and MinIO.
- Features include environment-driven configuration, connection pooling, built-in encryption, retries, observability hooks, and gRPC-based replication.
- Significantly reduced per-project infra setup time and improved consistency and onboarding across engineering teams.

Data Replication Service | *Rust, gRPC, TiKV, Kafka, Axum, Docker*
- Built a high-throughput, fault-tolerant data replication tool in Rust using gRPC streaming for real-time synchronization across clusters.
- Used Kafka for message queuing and TiKV for consistent distributed storage, enabling low-latency and reliable data transfer.
- Focused on concurrency, performance optimization, and failover handling to ensure resilience in production.

Document Control System (DCS) | *Rust, Angular, TiKV, Elasticsearch, Axum, Docker*
- Developed a full-featured internal DMS platform supporting document lifecycle management with revision tracking and role-based access control.
- Implemented secure APIs in Rust (Axum) and full-text search via Elasticsearch; used TiKV for scalable, metadata-rich storage.
- Enabled teams to manage SOPs, guides, and internal documents with audit trails and approval workflows.

Achievements

- **Certified in Java – Coding Ninjas:** Completed structured programming course with hands-on projects, reinforcing core object-oriented concepts and backend fundamentals.

- **Certified in React – HackerRank:** Demonstrated practical frontend development skills through assessments and coding challenges.

- **LeetCode Problem Solving:** Solved 100+ algorithmic problems, showcasing strong data structures, problem-solving ability, and consistency in competitive programming.