Keerthan Umesh Poojary

Backend & Distributed Systems Engineer
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Work Experience

Backend Intern — Jarnox (Remote) Aug 2025 – Jul 2026

- Built and deployed scalable backend APIs using FastAPI.
- Migrated 140M+ rows from PostgreSQL to ClickHouse, cutting OLAP query latency by 80% and enabling sub-second analytics.
- Managed self-hosted developer infrastructure with automated backups and fault-tolerant data ingestion pipelines.
- Designed a low-latency trading execution engine combining Python for strategy logic and C++ for critical execution paths.

Web Team Lead — Developers Club, TSEC Jun 2025 – Present

- Lead the team maintaining and optimizing the club's Next.js platform, improving SSR performance and responsiveness.
- Built a Vue.js-based website for the club's annual membership drive, handling frontend UX and registration for 100+ members.
- Contribute to web infrastructure supporting the club's events, activities, and member engagement.

Projects

Gruntdeck — Distributed Remote Execution Engine
GitHub
- Clean-room reimplementation of Rundeck in Go with concurrent SSH-based job orchestration across multiple nodes.
- Designed structured, recursive job pipelines with real-time logging and secure OpenSSH known-host verification.
- Implemented parallel multi-node execution with keepalive management for reliable long-running jobs.

Devs-Network
GitHub / *Live*
- Real-time developer collaboration platform built with Next.js and WebSockets for bidirectional, low-latency coding rooms.
- Implemented robust authentication and session management for concurrent multi-user rooms.

Relix — Your Data Partner
GitHub / *Live*
- FastAPI + DuckDB backend translating natural-language queries into optimized SQL via LangChain/LangGraph orchestration.
- Leveraged embedded analytical database (DuckDB) for sub-second query execution over local datasets.

Open Source Contributions

Buildah (Containers / Podman) GitHub
- Fixed bug in `buildah manifest push` ensuring push errors cleanly abort without creating empty digest files or returning exit 0; added Bats integration tests.

Apache DevLake GitHub
- Contributed and merged full-stack Grafana IRM plugin (backend Go collectors, schema migrations, Config UI) and data collection resilience fixes across GitHub and Jira.

Apache Camel K GitHub
- Implemented automated cert-manager TLS discovery in Ingress trait and added runtime flags to bypass opinionated observability dependencies.

Arc (Basekick-Labs) — SQL-native Time-Series Database GitHub
- Contributed Go fixes across storage, clustering, and security: Azure error-handling correctness, MQTT subscriber race fixes, and RBAC query authorization.

DefinitelyTyped GitHub
- Authored and merged 5+ pull requests improving TypeScript type definitions in DefinitelyTyped for the canonical `@types` npm scope.

Achievements

- 1st Place, IdeaForge Hackathon — Thadomal Shahani Engineering College (TSEC).

Education

Thadomal Shahani Engineering College, Mumbai 2024 – 2028
B.E. Artificial Intelligence and Data Science **CGPA: 9.135**
Coursework: Data Structures, Algorithms, Databases, Operating Systems, Machine Learning

Skills

- **Languages:** Go (Golang), Python, C/C++, SQL, JavaScript, TypeScript
- **Backend & Systems:** RESTful APIs, WebSockets, Microservices Architecture, Distributed Systems, Node.js, FastAPI
- **Databases & Data:** PostgreSQL, ClickHouse, DuckDB, ETL Pipelines, Large-Scale Migration, OLAP Analytics
- **AI/ML, Cloud & Tools:** LangChain, LangGraph, RAG Pipelines, Docker, Linux, Git, CI/CD, AWS EC2/S3/CloudFront