SHREY KHAKHARIA

B.Tech, Information and Communication Technology with minor in Computational Science

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Technical Skills

Languages: Python, TypeScript, SQL, Java, C++

Developer Tools: Visual Studio Code, Sublime, PgAdmin.

Tools/Framework: React, Node, Spring Boot, Rest, GraphQl, MongoDB, Postgres, Mongoose, MySql,RDMS, NoSQL, Git, AWS, PyTorch, TensorFlow,Scikit-learn

Technical Electives: Data Structure and Algorithms, Machine Learning, Natural Language Processing, Big Data Processing, Linear Algebra, Probability and Statistics, Design and Analysis of Algorithm,Machine Learning, Database Management System, Deep learning, Computer Networks,

Projects

Ratelimiter Link   **April 2025 - May 2025**

- Developed a gRPC microservice with hierarchical, distributed rate limiting using Bucket4j + Redis to enforce multi-level quotas (global → tenant → user → endpoint) across pods.
- Implemented a gRPC ServerInterceptor extracting metadata (user-id, tenant-id) for identical enforcement on RPC calls, showcasing poly-protocol expertise.
- Enabled dynamic quota adjustment via YAML/Actuator hooks for runtime updates without redeploy, ensuring ops-friendly control.
- Ensured production readiness with unit tests (JUnit 5 + Mockito) and integration tests (Testcontainers + Redis) validating exhaustion scenarios and resilience.

DocReader Link   **May 2025 - Jun 2025**

- Architected an end-to-end RAG pipeline, including multimodal document ingestion (PDF, PPTX, CSV), semantic chunking, embedding generation, and vector retrieval, enabling scalable and accurate knowledge access.
- Engineered a high-performance vector search and ranking system with FAISS for sub-second similarity queries, complemented by a BERT-based cross-encoder reranker to maximize answer relevance.
- Delivered production-grade deployment via Dockerized Streamlit UI, backed by pytest-driven CI/CD workflows and secure environment management, ensuring reproducibility, reliability, and rapid iteration.

HomeQuest Link   **Jan 2024 - March 2024**

- **Features:** RBAC Authentication system(user,admin),cloudinary storage, dark/light mode, User Favorites/bookmark, Filters that includes sorted by price, location, type(land, workplace, home, sale, rent)
- Built a secure, modular real-estate SaaS platform using Node, React, and MongoDB. Optimized backend by using GraphQl. **Integrated an AI Chatbot, an alternative to RSS feeds** which enhanced User Experience.
- Increased productivity in development by developing a NPM package having a method of forward-backward navigation, hence reducing the overwriting of the same method.

Education

Dhirubhai Ambani Institute of Information and Communication Technology

BTech in ICT with minor in Computational Science   *Gandhinagar, Gujarat*

BAPS Swaminarayan Vidyamandir (GHSEB)

Class 12th, Percentage: 95.53%   *Gujarat*

Experience

MAQ Software   **Jan 2025 — Present**

Software Engineer   *Noida*

- Improved the performance of the Inventory Dashboard by implementing caching on the front-end, thus reducing the loading time by more than 50%.
- Migrated the existing Power App workflow to web app hence unifying every functionality on a single platform.
- Designed and executed an automation testing utility to traverse and fetch link depth via BFS, integrated into CI/CD pipeline for regression testing of portals (ensuring robust operations and reduced manual effort).

Achievements

- Leetcode : Knight S_233
- Successfully contributed in one of the largest open source organization(libreoffice) by getting 2 PR merged which will be published in upcoming version of libreoffice.