

Harsh Gujarathi

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EDUCATION

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- Bachelor of Engineering — Computer Science (Minor in Data Science)** Goa, India
 - Birla Institute of Technology and Science Pilani, K. K. Birla Goa Campus* November 2020 — 2024
 - CGPA 9.2/10.00

EXPERIENCE

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- Software Engineer** Hyderabad, India
 - Microsoft — Azure Cloud Migrate* July 2024 — Present
 - **Primary Responsibility:** Working on Azure Cloud Migrate, focusing on Kubernetes, distributed systems, and system performance optimization
 - **Key Contributions:**
 - * Designing and implementing scalable cloud solutions for migrating on-premises applications
 - * Collaborating with cross-functional teams to enhance migration workflows
 - * Optimizing Kubernetes deployments for improved resource utilization and performance
 - **Technologies:** Azure, Kubernetes, Distributed Systems, Cloud Architecture, Database Migration
 - Member of Technical Staff Intern** Bengaluru, India
 - DevRev* January 2024 — June 2024
 - **Primary Responsibility:** Optimized Global Notifications Microservice architecture handling **60,000+ daily notifications** by implementing **distributed rate limiting**, event-based throttling, and clustering algorithms
 - **Key Contributions:**
 - * Engineered fault-tolerant notification rate limiter reducing spam by **85%** and improving email delivery efficiency
 - * Developed hierarchical clustering system with **$O(\log n)$** retrieval time to reduce redundancy and organize updates more effectively
 - * Architected LLM-powered notification summarizer using **OpenAI GPT-4** and **LangChain** with custom prompt engineering
 - * Enhanced reminders, tasks, and bookmarking features to improve overall user experience
 - * Took ownership of critical components while actively participating in system design discussions, debugging sessions, and performance optimization efforts
 - **Technologies:** Microservices, Distributed Systems, OpenAI API, LangChain, Vector Embeddings, Redis Rate Limiting, Performance Optimization, Event-Based Architecture
 - Software Engineer Intern** Hyderabad, India
 - Microsoft* May 2023 — July 2023
 - **Primary Responsibility:** Designed and implemented Customer Side **Metrics for Monitoring Meters** and publishing them to Azure Monitor and Geneva Dashboard using OpenTelemetry
 - **Key Contributions:**
 - * Actively contributed to design decisions for **Azure Business Continuity Center** (V1 product) with the Azure Core Compute Team
 - * Implemented metrics using OpenTelemetry and its Geneva Extension
 - * Developed comprehensive logging and monitoring solutions to enhance observability
 - * Created documentation and examples to facilitate adoption by other teams
 - **Technologies:** C#, .NET Framework, OpenTelemetry, Azure Monitor, Geneva Dashboard, MSTest, Telemetry
 - Summer Intern** Mumbai, India
 - LTI — Larsen & Toubro Infotech* May 2022 — July 2022
 - **Primary Responsibility:** Worked on **DataOps** for Fosfor Spectra software platform, building comprehensive test suites and facilitating data migration
 - **Key Contributions:**
 - * Coordinated between developers and test engineers to build an **exhaustive set of tests**
 - * Actively participated in Test Design Meetings and Daily SyncUps
 - * Developed automation scripts to streamline data migration processes
 - * Created test cases covering edge scenarios to ensure platform reliability
 - **Technologies:** DevOps, Data Migration, Test Automation, Collaborative Development

SKILLS

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- **Languages:** Java, Kotlin, Python, JavaScript, C#, C++, Dart, Go
 - **Frameworks:** Flutter, Android Framework, .NET Framework, NodeJS, React, TensorFlow, PyTorch
 - **Cloud & DB:** AWS, Azure, Google Cloud, Firebase, MongoDB, Redis, Appwrite
 - **Tools:** Git, Android Studio, VSC, Datadog, NumPy, Pandas, Qiskit
 - **Soft Skills:** Leadership, UI Design, Event Management, Team Collaboration