Harsh Gujarathi

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EDUCATION

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

- **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

- **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