

# Nisarg Gajjar

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## EDUCATION

### VIT Bhopal University

B.Tech. in Computer Science and Engineering; CGPA: 9.03/10.0

Sehore, MP

Aug 2022 – Aug 2026

## TECHNICAL SKILLS

- **Languages:** C++, Go, Kotlin, Python
- **Frameworks & Tools:** Gin, Chi, Jetpack Compose, Retrofit, Hilt, PyTorch, OpenCV, Docker, sqlc
- **Databases:** PostgreSQL, Firebase Firestore
- **Concepts:** REST APIs, MVVM Architecture

## WORK EXPERIENCE

### Jio Platforms Limited

Sept 2024 – Nov 2024

Software Engineering Intern – SmartSeatGuard System

- Developed a seat occupancy detection system using Python, OpenCV, and YOLOv5 to analyze real-time office utilization.
- Structured modular architecture for detection, data analysis, and visualization using configuration-driven workflows.
- Enhanced performance through GPU-based inference, error-handling layers, and automated statistical report generation.

## PROJECTS

### Swaasthya – Healthcare Management App | *Kotlin, Go, PostgreSQL, Firebase Auth, Docker* | GitHub

- Built a full-stack healthcare system integrating Android (Jetpack Compose) frontend and Go backend, enabling secure role-based access for patients, doctors, and staff.
- Implemented RESTful APIs with Gin, Firebase JWT authentication, and PostgreSQL, supporting appointment and doctor management through Dockerized services.
- Designed responsive UI using Material Design 3 with MVVM, Hilt DI, and Retrofit-based API integration for efficient state management.

### RSSync – RSS Feed Aggregator | *Go, PostgreSQL, Docker, sqlc, Chi* | GitHub

- Developed a backend service for personalized RSS aggregation featuring type-safe queries using sqlc and concurrent scraping workers.
- Integrated API key authentication, modular Chi router, and data persistence through PostgreSQL with cascade-safe schema.
- Optimized feed scraping and post parsing with batch concurrency, background processing, and duplicate-prevention checks.
- Designed clean API routes with middleware handling for error control, authentication, and rate management in Go.

### MargWatch – Road Issue Reporting System | *Kotlin, Jetpack Compose, Firebase, Node.js, PostgreSQL* | GitHub

- Developed the Android client enabling citizens to report road issues with GPS tagging, image upload, and real-time status tracking.
- Implemented Jetpack Compose UI with Material Design 3 and offline caching for consistent user experience.
- Integrated Firebase Cloud Messaging for notifications and REST API communication with Node.js backend.
- Added asynchronous image compression, location-based validation, and secure token-based user sessions.
- Collaborated with the backend and ML teams who built the Node.js-based API and PyTorch ResNet18 classification service.

## CERTIFICATIONS

- Meta Certified – Android Developer Professional
- Oracle Certified – Data Platform 2025 Foundations Associate
- NPTEL Certified - Cloud Computing

## ACADEMIC & COMPETITIVE CODING

- Ranked in top percentile of NPTEL Cloud Computing course.
- Solved 200+ LeetCode problems focused on data structures and algorithms.