

Ansh Bhimani

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Education

- Bachelor of Technology in Computer Science** 2021 – 2025
Pandit Deendayal Energy University, Gandhinagar
- CPI: 8.45
- All India Senior School Certificate Examination (CBSE)** 2021
R.P. Vasani International School, Ahmedabad
- Percentage: 81%

Skills

Languages: Java, Python, JavaScript
Backend: Spring Boot, Flask, Django, RESTful API Design, JUnit 5, Mockito
Frontend: React.js
Databases: PostgreSQL, MySQL, MongoDB, Redis
Cloud & DevOps: AWS (Lambda, S3, IoT Core), Docker, CI/CD Pipelines, Apache Kafka, Grafana
Tools: Git, GitHub, GitLab, Linux
Concepts: Data Structures & Algorithms, OOP, System Design, Caching Strategies

Work Experience

- Graduate Engineer Trainee (Software) — Mantra Smart Identity (Internal Transfer from Mantra Softech)** March 2025 – Present
- Backend Engineer building and maintaining IoT-based backend services for smart product systems.
- Designed and developed scalable backend services using Java Spring Boot for IoT-enabled systems supporting real-time device communication
 - Built and maintained RESTful APIs for seamless device-to-cloud integration and internal platform services
 - Integrated backend services with AWS (Lambda, S3, IoT Core) to enable event-driven workflows
 - Developed full-stack features using Spring Boot and React.js for internal monitoring dashboards and operational tools
 - Containerized services using Docker and streamlined deployments through CI/CD pipelines, improving release consistency
 - Improved system reliability by implementing structured logging and error handling
 - Wrote unit and integration tests using JUnit 5 and Mockito, ensuring code quality and reducing regression issues

Projects

- AWS SNS Notifier — Cloud Notification System** 2025
- Designed and integrated AWS SNS platform endpoints, topic management, and multi-region subscription workflows via AWS SDK for Kotlin
 - Delivered real-time push alerts to Android devices using Firebase Cloud Messaging (FCM) as the notification transport layer
 - Implemented encrypted IAM credential storage and local notification history with Room database
 - Technologies: Kotlin, AWS SNS SDK, Firebase FCM, Room, MVVM, EncryptedSharedPreferences
- Backend API Aggregation System** 2024
- Designed and built a backend system to aggregate and process data from multiple external REST APIs, enabling centralized data access and reducing manual integration effort
 - Designed scalable ingestion pipelines that reduced manual data processing effort significantly

- Exposed structured endpoints for downstream consumption and real-time querying
- Technologies: Python, Flask, REST APIs, ScyllaDB

Compliance Monitoring Backend System

2024

- Developed a rule-based backend for tracking compliance against standards (PCI DSS, HIPAA, GDPR)
- Implemented real-time alerting and audit logging to detect compliance violations and improve system observability
- Technologies: Python, Flask, PostgreSQL

Publications

Mitigating Security Vulnerabilities in IoT: A Blockchain-Based Approach

Taylor & Francis Publications, CRC Press

Co-authored a book chapter on securing IoT systems using blockchain — demonstrates applied research and technical depth.

Leadership

Vice-President, GeeksForGeeks Student Chapter, PDEU

2023 – 2024

- Led a 70-member team, organised 10+ technical events, and grew chapter participation by 50%