

Rahul Das

rahulkd403@gmail.com | +91-9582447965 | LinkedIn | GitHub | Portfolio

EDUCATION

Vel Tech Institute of Science and Technology

Bachelor of Technology in Computer Science Engineering

Chennai, India

2020 – 2024

- **GPA:** 8.64 / 10.0

WORK EXPERIENCE

Tata Consultancy Services (TCS)

Java Backend Developer

Bengaluru, India

November 2024 – Present

- Architected a microservices backend for the SAP BTP Deal Modelling Tool, handling enterprise-level deal processing.
- Engineered RESTful APIs and core business logic using Java 17 and Spring Boot 3, managing deal calculations and cart scenarios.
- Designed SAP HANA database solutions using Spring JPA and Hibernate to ensure optimal performance and data integrity.
- Established a distributed caching architecture using Redis, reducing API response times by 40% via efficient eviction policies.
- Enforced enterprise-grade security using XSUAA-based authentication, ensuring secure role-based API access.
- Devised an automated testing framework (JUnit, Mockito) achieving 85% coverage and integrated CI/CD via GitHub Actions.

Bharat Electronics Limited (BEL)

Java Technical Intern

Bengaluru, India

June 2023 – August 2023

- Programmed Java backend endpoints, including a Zeroize Function for secure data deletion from PostgreSQL using complex SQL.
- Collaborated on database optimization and system architecture, contributing to a 50% reduction in bugs.

PROJECTS

Scalable URL Shortener & Analytics Engine

Java 17, Spring Boot, Redis, PostgreSQL, Docker

- Engineered a high-performance URL shortening service handling read-heavy traffic via a Base62 bijection algorithm.
- Architected a distributed caching layer using Redis (Look-Aside), reducing DB queries by 90% with sub-10ms latency.
- Integrated asynchronous analytics using Spring @Async and containerized microservices with Docker Compose.

NASA APOD Explorer

github.com/rahuldas-404/nasa-apod-explorer

Java, Spring Boot, WebClient, Thymeleaf, H2, PostgreSQL

- Constructed a full-stack web app with non-blocking WebClient API integration, processing 200+ daily NASA requests.
- Enabled CRUD operations with H2/PostgreSQL for user favorites, reducing data retrieval time by 50%.

Multipurpose Miniature Satellite

github.com/rahuldas-404/infisky34

React.js, Node.js, Express

- Authored Ground Control Software for a VLOM satellite mission to enable large-scale telemetry data collection.
- Fabricated mission control interfaces with Node.js and Express for real-time visualization and reliable system control.

SKILLS

Languages: Java/J2EE, SQL, Kotlin, JavaScript

Backend Frameworks: Spring Boot, Spring Data JPA, Hibernate

Databases: PostgreSQL, H2, MySQL, Redis, SQL Server

API & Integration: RESTful APIs, WebClient, Retrofit, OpenAPI, JSON Processing

Cloud & DevOps: SAP BTP, Docker, CI/CD (GitHub Actions), Maven, Microservices

Frontend & Testing: React.js, JUnit, Mockito, Wiremock, Android (Kotlin), HTML/CSS