

Rahul Das

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EDUCATION

Vel Tech Institute of Science and Technology
Bachelor of Technology in Computer Science Engineering
o **GPA:** 8.64 / 10.0

Chennai, India
2020 – 2024

WORK EXPERIENCE

- Tata Consultancy Services (TCS)** Bengaluru, India
Java Backend Developer 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)** Bengaluru, India
Java Technical Intern 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