

Rahul Das

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EDUCATION

Vel Tech Institute of Science and Technology

Bachelor of Technology in Computer Science Engineering

- **GPA:** 8.64 / 10.0

Chennai, India

2020 – 2024

WORK EXPERIENCE

Tata Consultancy Services (TCS)

Bengaluru, India

Java Backend Developer

November 2024 – Present

- Architected and developed a microservices-based backend system for the SAP BTP Deal Modelling Tool, serving enterprise-level deal processing and quote management.
- Built RESTful APIs and core business logic using Java 17 and Spring Boot 3.3.1, handling functionalities including deal calculations, scenario modeling, and cart management.
- Designed and implemented database solutions using SAP HANA, managing data models with Spring JPA and Hibernate to ensure optimal performance and data integrity.
- Developed a distributed caching architecture using Redis and Spring Cache, reducing API response times by 40% through efficient caching strategies.
- Implemented enterprise-grade security using XSUAA-based authentication, ensuring secure API access.
- Built an automated testing framework using JUnit, Mockito, and Wiremock, achieving 85% code coverage and implementing CI/CD pipelines with GitHub Actions and Docker.

Bharat Electronics Limited (BEL)

Bengaluru, India

Java Technical Intern

June 2023 – August 2023

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

PROJECTS

NASA APOD Explorer

Java, Spring Boot, WebClient, Thymeleaf, H2 Database

- Developed a full-stack web application with non-blocking WebClient API integration, processing 200+ daily NASA APOD requests with optimized response caching.
- Implemented CRUD operations with an H2 database for user favorites and secure API configuration management, reducing data retrieval time by 50%.

NewsLinker

github.com/rahuldas-404/NewsLinker

Kotlin, Android, Retrofit, Firebase (FCM)

- Created an efficient API integration layer processing 500+ news articles daily, achieving 40% faster data retrieval through optimized JSON parsing and caching.
- Implemented a Firebase Cloud Messaging push notification system, achieving an 85% user engagement rate and real-time news delivery within 2 seconds.

Multipurpose Miniature Satellite

github.com/rahuldas-404/infisky34

React.js, Node.js, Express

- Developed the Ground Control and Flight Software Systems for a Very Low Orbit Maneuver (VLOM) satellite mission to enable large-scale data collection.
- Built mission control interfaces with React, Node.js, and Express for real-time telemetry visualization and reliable ground-to-satellite system control.

SKILLS

Languages: Java/J2EE, SQL, Kotlin, JavaScript

Backend Frameworks: Spring Boot, Spring Data JPA, Hibernate, Express.js, Node.js

Databases: PostgreSQL, H2, MySQL, Redis (Caching), SQL Server

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

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

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