

Rishav Raj Prasad

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EDUCATION

Birla Institute of Technology, Mesra

Ranchi, Jharkhand

Bachelor of Technology

2021 – 2025

Major in Computer Science Engineering

Cumulative GPA: 8.51 (out of 10)

Relevant Coursework: Data Structure and Algorithms, Database Management System, Software Engineering, System Design

WORK EXPERIENCE

Software Development Intern

Jan 2025 – April 2025

Tech HelioSys

Ranchi, Jharkhand

- Delivered **12+ key features** that allowed users to easily book services, improving client's customer engagement.
- Used 7 Firebase collections to streamline data flow, reducing manual tracking for the client by 80%.
- Integrated **Razorpay** for **20+ payment flows**, enabling the client to accept online payments securely and instantly.
- Implemented Firestore indexing and optimized queries, reducing data **fetch time by up to 60%** and improving app responsiveness for end users.

Software Development Intern

May 2024 – Aug 2024

Jharkhand Space Application Centre

Ranchi, Jharkhand

- Analyzed a dataset of over **10 million records** to forecast water flow with **67% accuracy** using **Python** and **ARIMA models**.
- Optimized data processing by 30%**, improving efficiency in handling **missing data** and ensuring high data integrity.
- Developed and deployed **scalable backend services** using **Python & Flask**, powering an **AI-driven forecasting model**.
- Provided **40% more accurate** insights for **water resource management** through advanced data analysis.

PROJECTS

FileFlow – A File Sharing WebApp ([Landing Page](#))

- Designed and deployed a **scalable File Sharing Application** using the **MERN stack**, ensuring **secure and efficient** file transfers.
- Developed **responsive UIs** with **React.js**, boosting **user engagement by 40%**.
- Optimized **RESTful APIs** in **Node.js & Express.js**, **reducing file processing time by 50%**, **reducing file processing time by 50%**.

Tech Stack: Front end - React.js, HTML, CSS, JavaScript | Back end - Node.js, Express.js, MongoDB

Authentication System with Rate limit ([Github](#))

- Configured **Bucket4j rate limiting** on over 5 critical endpoints, capping requests to **5 attempts per minute per IP**, effectively reducing brute-force login attempts by over **90% during simulated attacks**.
- Enabled **CSRF protection across all authenticated routes**, safeguarding 100% of user-facing forms and preventing unauthorized actions, enhancing overall security compliance with OWASP guidelines.
- Implemented JWT with refresh tokens, enabling 100% stateless sessions and reducing server session load by 30%.

Tech Stack: Java SpringBoot, Bucket4j, React, MariaDB

SKILLS

Technical Skills:

- Languages:** Java, JavaScript, Python, C++
- Frontend:** React.js, HTML, CSS, Flutter
- Backend:** Node.js, Flask, RESTful APIs
- Databases:** MongoDB, MySQL
- Embedded & Systems:** Linux
- Familiar with:** Java Springboot
- Version Control:** Git, GitHub

Professional Skills:

- Strong problem-solving, collaboration, and communication skills.
- Familiar with Object-Oriented Programming (OOP) and Agile methodologies.

CODING PROFILE

- Solved over 300+ Data Structure and Algorithms Question in [LeetCode](#)

ACHIEVEMENTS

- Advanced to Round 2 of the **Adobe GenSolve** Hackathon, ranking in the **top 5** percentile.
- Progressed to Round 1.2 of **Flipkart Grid 6.0** from over 300,000 participants; only 8,000 made it to this stage.