Ritwik Rudra

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EDUCATION

Kalinga Institute of Industrial Technology — **2024**
B.Tech - CGPA - 8.85 (upto 7th semester) — *Bhubaneswar, Odisha*

M.V.A.H Inter College — **2020**
Intermediate - Percentage - 77.5% — *Varanasi, Uttar Pradesh*

ST Xavier's International School — **2017**
Matriculation - CGPA - 10 — *Dhanbad, Jharkhand*

TECHNICAL SKILLS

Languages: C++, Java, HTML, CSS, JavaScript
Tools: Git, MongoDB, PostgreSQL, Flyway, Docker, Maven
Libraries/Frameworks: React, SpringBoot, Spring, Hibernate

EXPERIENCE

NinjaCart — **Jan 2024 - Feb 2024**
SDE Intern - Intern

- Collaborated with the core team in the development of the Microservice Registry project with 2 developers for the Ninja Kissan product.
- Implemented **24** RESTful APIs by synergizing **SpringBoot with PostgreSQL**, achieving an average response time of **50 milliseconds**. and seamlessly integrating them with **Flyway** for efficient database version control and migration.
- Leveraged advanced technologies such as **ElasticSearch, Kafka** to enhanced search capabilities by **50%** and adeptly managed high traffic resulting in supporting **100,000** concurrent users with a **40%** reduction in system response time.

HighRadius — **July 2023 - Nov 2023**
Product Engineer - Intern

- Developed a **B2B Invoice Management Application**, utilized **React** with **Material UI** for the frontend, achieving a **20%** improvement in user interface responsiveness
- Implemented **10** RESTful APIs in **Spring Boot**, enabling seamless CRUD operations with **MySQL** and reducing API response time by **25%**.
- Modified the **Para** Framework for their EIPP platform, focusing on enhancing its functionality. Specifically, revamped the **DAO layer** to store data in **SQL** format instead of NoSQL, leading to a **15%** reduction in data retrieval time.
- Additionally, developed a **Kafka Plugin** to streamline communication and enhance data flow within the EIPP platform reducing message latency to under **5 milliseconds**.

PROJECTS

ProductManagementSystem

- Engineered a **robust** backend with RESTful APIs, achieving a **25%** improvement in data processing speed for product, customer, and order management.
- Implemented **Hibernate** for database mapping and persistence with **MySQL**, reducing data retrieval latency by **30%** and enhancing overall system responsiveness.
- **Technologies Used:** Spring, Struts, Hibernate, MySQL

Sorting Visualizer

- Developed a website that visualizes various sorting algorithms such as **Bubble, Selection, Insertion, Merge, and Quick.**
- Implemented features to allow users to adjust the size of the input array and the speed of the transition during the algorithm's runtime.

ACHIEVEMENTS

- **Problem Solving Basic and Intermediate Certification**, HackerRank Website, 2021.
- Ranked **Top 5** coder among **500** participants in CodeVibe , MSC KIIT Society, 2021.
- Solved **500** question in **GeeksforGeeks** and **Leetcode**.