

Vivek Kumar Singh

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TECHNICAL SKILLS

- **Programming Languages:** Core Java, Advanced Java, JDBC Connectivity
- **Frameworks:** Spring Core, **Spring Boot**, Spring **Data JPA/ORM**, **Spring Security**, **Spring MVC**
- **Microservices:** **Spring Boot Microservices**, **Feign Client**, **Eureka Server**, **Admin Server**, **Zipkin Server**, **API Gateway**, **Routing**, **YAML**, **Load Balancing (Ribbon)**
- **API Development:** **Swagger API Documentation**, **RESTful APIs (CRUD Operations)**, **Postman (API Testing)**, **AWS (S3, EC2 Configuration)**, **JWT Authentication**
- **Logging Frameworks:** SLF4J, Log4j2
- **Exception Handling:** Custom Exception Handling, **Global Exception Handling** in Spring Boot / REST API
- **Databases:** MySQL (DDL, DML, TCL, DQL, DCL Commands, **Primary Key** Clauses, **Joins**)
- **Frontend Technologies:** HTML, CSS, **JSP** (Basics)
- **Developer Tools:** Eclipse, **IntelliJ IDEA**, Visual Studio Code, **Spring Tool Suite**, **AWS Cloud**, **Git**, **GitHub**

EXPERIENCE

Software Developer Intern

Technix Technology Private Limited

Oct 2024 – Present

Web Security Module Development

- Architected a **scalable monolithic application** using **Spring Boot**, **JWT Authentication**, and **Spring Security** for secure, efficient business operations.
- **API Development:** Designed and implemented **RESTful APIs** with **Spring Data JPA**, optimizing **MySQL** database management.
- **Image Optimization:** Developed an image handling module to improve data storage efficiency and enhance user experience.
- **Advanced Analytics:** Integrated **location-based analytics** with **IPInfo** for real-time monitoring and improved application security.
- **System Reliability:** Reduced downtime through custom **exception handling** and robust **error management** strategies.

Accounting and Inventory Module Development

- Developed an **Accounting Module** with features like account classification (e.g., **Sundry Debtors**, **Current Assets**) and **ledger management** (e.g., **Deposits**, **Prepaid Expenses**, **Account Receivables**).
- Implemented **multi-company** support and **custom ledger** creation for flexible financial management.
- Built **RESTful APIs** and integrated with **MySQL** Database for secure account and ledger operations.
- Ensured **audit compliance** with **complete audit trails** for account creation/modification.
- Enhanced performance by **optimizing data flow** and **query execution** for real-time financial reporting.

Subscription and Plan Management Module Development

- Developed a **subscription module** allowing users to **view**, **activate**, and **manage plans**, including **free trial** options.
- Implemented logic to **calculate plan duration** based on start and end dates, dynamically **displaying** the **active period**.
- Automated **subscription status** updates (**active/inactive**) based on **plan validity**.
- Integrated with **Spring Data JPA** and **MYSQL** DB to securely store subscription data, including plan details and statuses.
- Built **RESTful APIs** for **subscription activation**, **plan retrieval**, and **duration tracking**.

Technologies:

- Spring Boot, Spring Data JPA, MYSQL DB, RESTful APIs.

Microservices-Based Restaurant Management System

Project Overview:

- Designed a **backend application** for restaurant, order, and payment management using **Spring Boot microservices**.
- Integrated **Feign Client** for **service communication** and **Eureka** for service discovery, with monitoring via **Zipkin**.
- Implemented **Global Exception Handling** to ensure consistent error responses and improve system reliability.
- Managed data using **Oracle DB** (production) and **H2** (testing), with **Spring Data JPA** for ORM.
- Conducted comprehensive **API testing** with **Postman**, ensuring seamless functionality.

Technologies Used: Spring Boot, Feign Client, Oracle DB, H2, Eureka, Zipkin, Admin Server, REST API, Postman, Global Exception Handling

EDUCATION

Bachelor of Engineering (Computer Science & Engineering) **CGPA:** 8.38/10
University: R.G.P.V University Bhopal, M.P
Passing Year: Aug 2018 - June 2022

Intermediate (12th) **Percentage:** 60.1%
Board: B.S.E.B Patna
Passing Year: 2017

Matriculation (10th) **Percentage:** 64.1%
Board: B.S.E.B Patna
Year: 2014

DECLARATION

I hereby affirm that the information provided in this form is true & correct to the best of my knowledge.

Date:
Place: Patna

Yours Sincerely,
Vivek Kumar Singh