

# AKSHIT TYAGI

Java professional proficient in Core Java, SQL, J2EE, Hibernate, and Spring Boot.

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## EXPERIENCE

Java Developer Intern

Hulk Hire | Trustly Payment Integration

📅 November 2023 – February 2024    📍 Hyderabad, TG

- Developed a secure and scalable e-commerce payment system, integrating Trustly to enhance payment options in the **European market**. Utilized **Spring Boot** for efficient development and adopted a **microservices architecture** for scalability, hosted on **AWS**. Contributed significantly to the end-to-end **integration of Trustly**, including the development of **REST** endpoints, design and implementation of the Validation Framework, application security with **HmacSHA256 & RSA**, robust **error handling**, Payment Status Management, 3rd Party **API Integration**, and **Notification handling**. Additionally, had the opportunity to explore and work with open-source technologies such as **Redis**, **MongoDB**, and **ActiveMQ**.

Responsibilities :

- Design and development of a secure reliable payment system with Trustly Integration using **Java** and **Spring Boot**, & **Microservices**.
- Contributed to a modular **validation framework**, and developing critical validating rules that lowered payment processing errors by **15%**.
- Developed **HmacSha256** while E-commerce system integrated to Payment, and build a strong layer of **RSA** while the Payment system connects with Trustly. Ensuring **100% Authentication, Authorization** & avoiding data tampering during payment processing.
- Implemented payment status handlers using the **Factory pattern** and **Spring JDBC**, enhancing **database efficiency** by **30%**.
- Developed multiple error codes to meet system failures and utilized **spring exception handling** to handle errors effectively.

## EDUCATION

B.Tech in Computer Science

Ajay Kumar Garg Engineering College, Ghaziabad, UP

📅 GATE-2023 Qualified    📍 AKGEC-2024

- Coursework:** Algorithms and Data Structures, Database Management System (DBMS), Computer Networking (CN), Operating Systems (OS), Object Oriented Programming (OOP), Software Engineering (Low-Level Design).

## ACHIEVEMENTS

- GATE Qualification:** Demonstrated high-level expertise and proficiency in Computer Science Engineering.
- Smart India Hackathon:** Played a pivotal role in a 5-member team, contributing to project architecture and demonstrating strategic planning and collaborative problem-solving.

## CODING PROFILE

LeetCode - akshittyagi171 [300+ Problems Solved]

GeekForGeeks - akshittyagi171 [350+ Problems Solved]

- GeekForGeek Overall Rating - 84 in AKGEC.
- Secured Consecutive 50 and 100 days of code challenge badge from LeetCode 2023 and 2024.

## TECHNICAL SKILLS

- Languages:** Java, SQL.
- Java Frameworks:** Spring Boot and Hibernate.
- Developer Tools:** GSON, Sonar, Lombok, Maven, Redis.
- Database:** SQL, PL/SQL, PostgreSQL, Microsoft SQL Server, Oracle, MySQL, MongoDB (NoSQL).
- Web Development:** HTML, CSS, Bootstrap, MaterialUI, Javascript, React.
- Agile Methodology:** Scrum, Jira, and Agile Development.
- Version Control:** Git, Bitbucket, Github.
- Testing & Debugging:** JUnit, Mockito, Unit Testing, Debugging, Logging (Log4J).
- Other Key Skills:** ChatGPT, Bard usage and Prompt Comprehension, Conversational AI Understanding, Code Debugging, Agile Methodology, System Performance and Analysis

## RESEARCH PUBLICATION

TL-DCA in Smart Cities – Data Collection

Worked with Prof. Dr. Sachin Kumar (Dean of Research)

- Architected a **data collection framework** for next-gen smart cities, resulting in a **30%** efficiency boost and a **20%** reduction in security threats.
- Implemented **four robust algorithms** and **digital signatures**, contributing to a **40%** improvement in data quality.
- Achieved a **15%** increase in **system resilience** through the implementation of the various algorithms.

## PROJECTS

EMPLOYWISE - Employee Management App

- Crafted high-performing and scalable **Java** code with **Spring Boot**, **Hibernate**, and **Maven** for scalability, and successfully implemented **CRUD** functionality within the platform.
- Integrated **Spring application** with various databases including **MongoDB** and **CouchDB**, optimizing database schemas to ensure smooth data retrieval and storage.
- Implemented diverse functionalities including **Administrative Reconciliation**, **pagination**, and **sorting**, while utilizing **Swagger** to comprehensively document all **APIs**.
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RED CAFE - Café Automation Platform

- Developed **efficient** and **scalable** Java code, leveraging **core Java**, **JavaFX**, **SQL**, **JDBC** and build tools.
- Implemented **CRUD** functionality by incorporating an **inventory management system** within the platform.
- Integrated Java application with databases such as **Oracle**, **MySQL**, **PostgreSQL**, **MS SQL Server**, optimizing database schemas and executing **optimized SQL queries** for seamless data retrieval and storage.
- Innovated **bill generation mechanism** and **billing history generator**, saving **20+ hours per week** in manual reconciliation.
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