

AKSHIT TYAGI

Software Engineer with a passion for Java, SQL, Spring Boot, and building Enterprise Applications.

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EXPERIENCE

Software Engineer Intern

PayNet Systems | PayNet REST

📅 July 2024 – Present 📍 Noida, UP

- Design and development of a secure **REST APIs** using **Java** and **Spring Boot**, **Spring Security** & **Microservices**.

Software Engineer Intern

Hulk Hire | Payment Integration

📅 November 2023 – February 2024 📍 Hyderabad, TG

- Design and development of a secure reliable payment validation microservice 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%**.
- Implemented payment status handlers using the **Factory pattern** and **Spring JDBC**.
- 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, 2024 Qualified** 📍 **CGPA: 7.91 (2024 pass-out)**

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

ACHIEVEMENTS

- **GATE Qualification:** Demonstrated high-level expertise and proficiency in Computer Science Engineering by **qualifying GATE exam 2 times** consecutively in years **2023** and **2024**.
- **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 PROFILES

- **LeetCode**– Highest : 320+ Problems Solved
Profile Link- akshittyagi171
- **GeekForGeeks**– Highest : 400+ Problems Solved
Profile Link- akshittyagi171
- Successfully Completed July 2023 Monthly Coding Challenge in LeetCode July challenge.
- Secured Consecutive 50 and 100 days of code challenge badge from LeetCode 2023 and 2024.

TECHNICAL SKILLS

- **Languages:** Java, SQL.
- **Java Frameworks:** Spring Core, Spring MVC, Spring Boot and Hibernate.
- **Developer Tools:** Lombok, Maven.
- **Database:** SQL, PostgreSQL, Microsoft SQL Server, Oracle, MySQL, MongoDB (NoSQL).
- **Web Development:** HTML, CSS, Javascript.
- **Agile Methodology:** Scrum, Jira, and Agile Development.
- **Version Control:** Git, Bitbucket, Github.
- **Testing & Debugging:** JUnit, 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 a team of **Global Experts**.

- 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.
- **Research published in WILEY's Security and Privacy Journal** Volume 7, Issue 4 - <http://doi.org/10.1002/spy2.382>

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**.
- 🔄 akshittyagi171/Spring_Project-EMPLOYWISE

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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