

# RISHABH VERMA

4 years experience in designing and building large-scale production-level web applications

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## TECHNICAL SKILLS & TOOLS

**Backend:** Java, Spring Boot, Spring Data JPA, Hibernate, FastAPI, Python, Groovy, C, SQL

**Databases:** PostgreSQL, MySQL, MongoDB

**Frontend:** React, JavaScript, Angular, JSON, HTML5, CSS, Streamlit, Typescript

**Toolkit:** Git/SVN, Jenkins, Maven, Postman, RabbitMQ, SAP, AWS, JIRA, CI/CD, Linux, Unix, ServiceNow, SaaS

**Fundamentals:** DSA, RESTful Webservices, Microservices APIs, Object Oriented Programming, System Design, Agile

## PROFESSIONAL EXPERIENCE

**Software Development Engineer** | *Digitate, Tata Consultancy Services (TCS), Pune, India*

07/2018 – 07/2022

Microservices and Product Development:

- Conceptualized and implemented multipurpose microservice platform using **REST API, Spring Boot, JPA, PostgreSQL & RabbitMQ** to manage applications for **ERP** clients enabling them to consume high-volume data from **SAP** systems
- Took ownership of **Idoc Management™** and made it the most popular capability of **ignio™ AI.ERPOps**, driving unprecedented popularity and attracting new clientele
- Designed and developed dynamic, data-rich APIs to populate dashboards and reports using **Spring Hibernate**
- Architected product capability responsible for fetching master data from SAP system. Quickly becoming one of the most sought-after services of ignio
- Engineered a health-check microservice agent to analyze system anomalies, facilitating the creation of metric dashboards
- Enhanced database response time for a product capability by **60%** through Object-Relational Mapping (**ORM**) revamp and Hibernate query optimization
- Fine-tuned real-time business activity monitoring microservice's performance, improving response time by over **50%**. This had a direct impact on customer satisfaction levels

Strategic Coordination:

- Orchestrated strategic methodology for platform upgradation and coordinated all related activities (architecture and DB). Pioneered this approach, setting a benchmark for fellow developers to emulate.
- Played a pivotal role in TCS' award-winning cognitive automation product, **ignio™ AI.ERPOps** & led stakeholder walkthroughs

Process and Quality Improvements:

- Initiated **CI/CD** pipeline automation design & efforts, reducing testing team's workload by **40%**, enabling early releases
- Conceived solutions for automated service approval requests in client systems, decreasing manual engagement by **60%**
- Conducted code reviews, addressing UI, SIT, static, and security Veracode defects. Log analysis using **Python** and **ETL** pipelines

Mentoring and Awards:

- Got recognized by senior leadership for my high-impact work, trained and mentored 4 new team members
- TCS Digital Cadre member, 'A' band performance & LIREL award, Vice President: Toastmaster Club (04167410, 125, Area C04)

**Industrial Training** | *IBM-Headstart, Delhi, India* (MapReduce, Apache Pig, Java, Apache Hive, IBM Infosphere) 05/2017 – 06/2017

- Utilized graphs and dashboards to derive insights from a large housing dataset as part of a Big Data Hadoop project
- Employed map-reduce functions in IBM Infosphere leveraging Apache Pig and Hive

## EDUCATION

**Master of Science: Engineering Science (Data Science)**

08/2022 – 01/2024

UNIVERSITY AT BUFFALO, THE STATE UNIVERSITY OF NEW YORK

Leadership & Volunteer: Acted mentor for STEM activities camp for K-12 students affiliated with School of Engineering

**Bachelor of Technology: Computer Science and Engineering**

07/2014 – 06/2018

DR. A.P.J. ABDUL KALAM TECHNICAL UNIVERSITY, MEERUT INSTITUTE OF ENGINEERING & TECHNOLOGY, INDIA

## PROJECTS

- **Real Time Web Surfing Chatbot** (*Open AI LLM, LangChain, SerpAPI, React, FastAPI*) ([Demo](#)) ([GitHub](#)) 2024  
Developed a real-time web surfing chatbot agent built on top of Open AI gpt-3.5-turbo model
- **New York Farmers' Market Data Analysis** (*Java 8, Spring Boot, REST, Hibernate, PostgreSQL, Python, Streamlit*) 2023  
Data analysis web application leveraging New York Farmers Market dataset. Allowing users to add data and generate insights