RISHABH VERMA

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

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EDUCATION

Master of Science: Engineering Science (Data Science)   08/2022 – 12/2023

UNIVERSITY AT BUFFALO, THE STATE UNIVERSITY OF NEW YORK

Relevant Coursework: Algorithms, Probability Theory, Numerical Mathematics, Statistical Learning & Data Mining, Database

Leadership & Volunteer: STEM activities camp mentor 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

Relevant Coursework: Data Structures & Algorithms (DSA), Operating Systems, Software Engineering, DBMS

TECHNICAL SKILLS & TOOLS

Backend: Java, Spring Boot, Spring Data JPA, Hibernate, Python, Groovy, C, SQL
Databases: PostgreSQL, MySQL, MongoDB
Frontend: JavaScript, Angular, JSON, HTML5, CSS, Streamlit
Toolkit: Git/SVN, Jenkins, Maven, Postman, RabbitMQ, SAP, Kubernetes, Docker, AWS, JIRA, CI/CD, Linux, Unix, ServiceNow, SaaS
Fundamentals: DSA, RESTful Webservices, Microservices, HTTP, Object Oriented Programming, System Design, Agile

PROFESSIONAL EXPERIENCE

Software Development Engineer | *Digitate, Tata Consultancy Services (TCS), Pune, India*   07/2018 – 07/2022

Microservices Development:
- Conceptualized and implemented multipurpose microservice platform using **Java REST API, Spring Boot, JPA, & RabbitMQ** to manage applications for **ERP** clients enabling them to consume high-volume **SAP** data
- Designed and developed dynamic, data-rich dashboard APIs and reports using **Spring Hibernate**, and **PostgreSQL**
- Engineered a health-check microservice agent to analyze system anomalies, facilitating the creation of metric dashboards
- Enhanced master-data microservice database response time 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 **40%**

Product Development and Strategic Coordination:
- Orchestrated development of Digitate's major product capabilities: Idoc Management, Health Check, & Master Data
- Devised a strategic methodology for platform upgradation and coordinated all related activities (architecture and DB)
- 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, reducing another team's workload by **40%** and enabling early releases of the product
- 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:
- TCS Digital Cadre member, 'A' band performance & LIREL award, Vice President: Toastmaster Club (04167410, 125, Area C04)
- Led training and mentoring of new recruits (7+) and interns

Intern | *IBM-Headstart, Delhi, India* (MapReduce, Apache Pig, Java, Apache Hive, and 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

PROJECTS

- New York Farmers' Market Data Analysis *(Java, 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
- Professional Experience – ignio™ AI.ERPOps *(Java, Spring Boot, Hibernate, Groovy | Angular, JavaScript |Toolkit: Eclipse, IntelliJ IDEA, PostgreSQL, Jenkins, JIRA, Veracode, SVN)*   2018 - 2022
  Customized IDoc Health Check Microservice in ERP, detecting anomalies and tabulating dashboard insights. Designed Service Request solutions for SAP ERP. Crafted master data solutions and customizable system health checks