Saatvik Tripathy

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SKILLS

Languages and Databases: Java, Python, SQL/PSQL, MongoDB, HTML/CSS, Javascript
Frameworks: Node.js, Express, React, SpringBoot, REST, J2EE, Jenkins, Agile
Tools: Git, Jira, SQL Developer, Postman, Figma, PowerBi, Latex

EDUCATION

University of Florida   Aug 2023 – May 2025

Masters in Science (MS) in Computer Science, GPA: 3.6/4.0
Featured Coursework: Analysis of Algorithms, Advanced Data Structures, Distributed Operating Systems and
Principles, Data Engineering, Computer Networks, Human Computer Interaction

GITAM University   Aug 2017 – May 2021

B.Tech in Computer Science and Engineering, GPA: 3.8/4.0
Featured Coursework: Database Management Systems, Design and Analysis of Algorithms, Machine Learning, Software
Engineering

EXPERIENCE

Associate Software Engineer   Jun 2021 – Jun 2023

Accenture India Pvt. Ltd.   *Jenkins, Jira, Git, Java*

- Designed and deployed healthcare solutions compliant with **FHIR** and **HL7** standards, ensuring accurate data exchange and interoperability across clinical systems.
- Designed and implemented a **microservices** architecture for healthcare insurance systems, enabling more flexible and scalable management of critical data, which enhanced overall operational efficiency by 20 %.
- Developed 7 custom **REST API** endpoints with Spring Boot to fetch and tailor JSON data from AWS-hosted databases, significantly enhancing data accessibility and achieving key business objectives.
- Established robust error handling and status code management for API interactions, improving reliability and user experience.
- Maintained rigorous test coverage exceeding **95%** using **JUnit**, surpassing industry standards and best practices, ensuring robust validation of all new features.

Software Engineering Trainee   Apr 2021 – May 2021

Accenture India Pvt. Ltd.   *Java, SQL, HTML, CSS, JavaScript*

- Demonstrated mastery of **object-oriented programming** concepts by successfully completing a complex Java development project, resulting in a **95% satisfaction rate** from project stakeholders.
- Achieved a **91%** score in software engineering training, showcasing expertise in web technology concepts such as **HTML, CSS, and JavaScript**.

RELEVANT PROJECTS

Library Management System | Java, Data Structures

- Developed the cutting-edge 'GatorLibrary" system in Java, leveraging advanced data structures and algorithms to elevate book and patron services, boosting performance metrics by 40% and ensuring unparalleled data integrity.
- Engineered a Red-Black tree for book record management and a Binary Min-heap based priority queue for efficient waitlist handling and book allocation, achieving logarithmic operation complexity.

Automated Text Redaction Tool | Python, SpaCy, NLTK

- Engineered and deployed an innovative NLP-driven tool in Python for automated redaction of sensitive data in documents, ensuring compliance with privacy regulations and bolstering data security measures.
- Integrated statistical analysis for redacted content, providing metrics on data sensitivity and redaction efficacy, with comprehensive unit testing to ensure robust performance across various text formats.

CERTIFICATIONS

- Oracle Cloud Infrastructure 2023 AI Certified Foundations Associate 🔗
- Oracle Cloud Infrastructure 2024 Generative AI Certified Professional 🔗
- Oracle Cloud Infrastructure 2024 Certified Foundations Associate 🔗