SUSHMITA BAHALA

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SUMMARY

Experienced Software Engineer with six years of expertise in building scalable cloud-based applications and microservices. I hold a Master's in Computer Software Engineering from Stevens Institute of Technology. Skilled in Java, JavaScript, Python, AI/ML and Agile methodologies, I am adept at leading development teams and enhancing operational efficiencies across multiple sectors.

WORK EXPERIENCE

Stevens Institute of Technology, Hoboken, NJ, US   **[September 2023 – December 2023]**
Graduate Teaching Assistant

- Mentored 60+ software engineering students on SDLC, Agile, testing, and quality assurance focusing on the enhancement of real-world application development skills
- Implemented effective mentorship in software engineering, achieving a 95% pass rate and aiding 75% of students in securing roles within six months, underscoring curriculum's industry relevance

Transunion, India   **[June 2019-August 2022]**
Associate Software Developer

- Spearheaded cloud-based application development with Spring Boot, Python, Java, and Scripting, leveraging Microservices, JPAs, and ETL processes to boost functionality, performance, and data analytics, in adherence to industry best practices
- Revolutionized code quality and deployment efficiency through a rigorous review process and effective scope management, resulting in over 2,000 annual man-hour savings
- Accelerated application delivery by 40% through implementing CI/CD pipelines using AWS CodePipeline, CodeBuild, and CodeDeploy, resulting in faster time-to-market and improved software quality
- Architected and developed scalable microservices using Spring Boot, Spring REST, and Apache Kafka, ensuring high availability and fault tolerance with robust inter-service communication
- Recognized as 'Excellent Performer' on two occasions over a three-year period, placing in the top 3% of peers based on exceptional performance and contributions
- Resolved 95% of high, medium, and low priority production issues within strict deadlines, enhancing system efficiency and increasing revenue through improved service availability
- Worked closely with four cross-functional teams across departments to deliver data solutions that improved process efficiency by 30%, aligned with strategic objectives, and contributed to a 15% increase in annual revenue

FSS Technology Inc., India   **[June 2016 – June 2019]**
Software Engineer

- Engineered PCI DSS compliant financial web applications using Java Spring MVC, generating over 600 reports for banking clients and enhancing functionality through PL/SQL, SQL Stored Procedures, JRXML, and JSPs integration with large databases
- Delivered customized design solutions to major banking clients, enhancing scalability and productivity by 45%, while reducing ownership costs by 25%
- Led the design and development of over 30 innovative features, playing a pivotal role in enhancing collaboration between onshore and offshore teams
- Implemented financial reporting solutions that generated structured reports in XML format, ensuring compliance with industry standards
- Applied object-oriented programming principles (OOP) in Java implementing design patterns for code reusability, maintainability, and system scalability
- Awarded 'Outstanding Performer' for two consecutive years, achieving a client satisfaction index of approximately 95%, reflecting exceptional service and performance
- Utilized RDBMS technologies to write complex SQL queries, stored procedures for efficient data handling, batch processing and retrieval, especially in financial datasets

ACADEMIC PROJECTS

- **Digital Scavenger Hunt:** Directed a 9-member team on a Scrum-based project with FS Digital, achieving 100% Jest coverage and deploying on AWS using Node.js, Vue.js, MongoDB, and Sonar Cloud for optimal DevOps and quality
- **Pull Request Bug Category Analysis (AI for Software Engineering):** Conducted analysis on 4,000+ GitHub entries using Python and Jupyter, leveraging machine learning to streamline issue resolution and enhance developer collaboration
- **Hotel Management System:** Designed and deployed a scalable Hotel Management System using React.js, Node.js (ECMAScript) and MongoDB, with Docker for deployment and Kubernetes for orchestration on AWS, enhancing system reliability, scalability, and operational efficiency

SKILLS

- **Programming Languages & Cloud:** Java, JavaScript, Python, HTML, CSS, Bash Shell Scripting, AWS Certified
- **Frameworks/Libraries:** Spring Boot, Spring MVC, JPA, Angular, React JS, Node.js, Django
- **Database:** Oracle PL/SQL, NoSQL, MongoDB, Firebase, Stored Procedures
- **CI/CD & DevOps:** Jenkins, Circle CI, GitHub Actions, Docker, Kubernetes
- **Software Development Practices and Testing:** Agile, Autosys, Design patterns, Microservices architecture, SOAP, REST, Distributed services, AI/ML, JUnit, Mockito, Mocha, Jest, Pytest
- **Certificates:** AWS Cloud Practitioner Certification

EDUCATION

Stevens Institute of Technology, Hoboken, NJ, USA   **[September 2022 - May 2024]**
- Masters in Computer Software Engineering   **GPA 3.9/4.0**

Silicon Institute of Technology, India   **[June 2012-June 2016]**
- Bachelor of Technology in Computer Science   **GPA 3.4/4.0**