Sushmita Bahala

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Summary

Senior Software Engineer with 7+ years of experience in back-end and full-stack development, specializing in cutting-edge technologies and proficient in crafting efficient, high-performance applications leveraging modern frameworks and tools such as TSX, React, SCSS, Python, Node.js, Java and Databricks. Demonstrates expertise in designing and implementing data pipelines, ETL systems, and advanced SQL for complex data management. Skilled in leveraging Azure cloud technologies, Cosmos DB, and Delta Tables to create reliable and scalable enterprise-grade solutions. Strong problem-solving, collaboration, and communication skills, ensuring project success and alignment with business goals

Education

Masters in Software Engineering | Stevens Institute of Technology, Hoboken, New Jersey, USA
Bachelors in Computer Science | Silicon Institute of Technology, Odisha, India

Technical Skills

Development Methodologies: SDLC, Agile, Waterfall, TDD
Programming Languages: JavaScript, TypeScript, Node.JS, Python, Java, SQL, Shell Scripting
Front-End Technologies: React (TSX), Redux, Angular, SCSS, CSS3, HTML5
Back-End Technologies: LLM-based systems, AI/ML Basics, RESTful APIs
Microservices & Architecture: Microservices, REST API
Cloud & DevOps: AWS, Azure Databricks, Git, GitHub, Jenkins, Postman
Data Systems: Delta Tables, Data Pipelines, ETL systems
Databases: Oracle, SQL Server, DB2, MySQL, Cosmos DB, MongoDB
IDE & Development Tools: Visual Studio Code, Eclipse, IntelliJ IDEA, Docker
Operating Systems: Windows, MAC, Linux
Certificates: AWS Cloud Practitioner Certification

Professional Experience

Charles Schwab, New Jersey, USA   Jan 2024 – Present
Software Engineer

- Designed, developed, and supported scalable, high-performance applications across the Software Development Life Cycle (SDLC), leveraging microservices architecture with Python, JavaScript for increased scalability, availability, and fault tolerance
- Collaborated with cross-functional teams to implement Langchain-based Gen AI agent frameworks, delivering cutting-edge AI-driven solutions
- Leveraged Reacts caching mechanisms to optimize data fetching for frequently accessed data from APIs, resulting in a 25% decrease in average page load time
- Boosted application response time by leveraging Amazon DynamoDB for high-performance NoSQL data access, reducing latency for critical operations
- Enhanced application deployment by 50% through the implementation of robust CI/CD pipelines leveraging Kubernetes and industry-leading tools like Jenkins or GitLab CI

Transunion, India   Jul 2019 – Aug 2022
Associate Software Developer

- Led full-stack development for various phases of SDLC, including requirement gathering, design, analysis, and code development, using JavaScript, TypeScript, Python and REST APIs
- Optimized and managed scalable data pipelines and ETL systems on Databricks, enabling real-time data transformations and analytics
- Engineered cloud-based solutions on Azure, leveraging services like Cosmos DB and Delta Tables for robust data handling and storage
- Performed CRUD operations like Updating, Inserting, and Deleting data in MongoDB and SQL Server and handling database access and data transmission based on RESTful web service
- Architected and developed scalable microservices using Node.js, React, ensuring high availability and fault tolerance with robust inter-service communication
- Built and optimized responsive front-end solutions for fintech applications using Angular, React.JS, Redux, HTML5, CSS3, and Bootstrap, enhancing user experience, state management, and performance
- Delivered responsive front-end solutions for fintech applications, integrating AI modules for real-time decision-making and improved user experience
- 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   Jul 2016 – Jul 2019
Software Engineer - I

- Led full-stack development for various phases of SDLC, including requirement gathering, design, analysis, and code development, using Python, React, Node.js, JavaScript, and REST APIs
- Delivered customized design solutions to major banking clients, enhancing scalability and productivity by 45%, while reducing ownership costs by 25%
- Engineered cloud-native applications using Node.js, integrating seamlessly with Cosmos DB and Delta Tables
- Developed over 30 innovative features, pivotal in enhancing collaboration between onshore and offshore teams
- Built highly interactive dashboards using React (TSX) and SCSS, enhancing user engagement and improving collaboration between onshore and offshore teams
- Automated CI/CD pipelines with Jenkins, Docker, and AWS services, ensuring efficient deployment and management of applications in the cloud
- Utilized RDBMS technologies to write complex SQL queries for efficient data handling and retrieval, especially in financial datasets
- Boosted data processing efficiency by 30% through strategic optimizations, addressing critical production issues and enhancing functionalities

Academic Projects

- Pull Request Bug Category Analysis (AI for Software Engineering): Conducted analysis on 4,000+ GitHub entries using Python and Jupyter, leveraging machine learning models to streamline issue resolution and enhance developer collaboration
- 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
- Med Tracker: Designed and deployed a scalable Hospital Management System using React.js and Firebase, with Docker for deployment and integrated Sonar Cloud for code analysis and Jest for test coverage, ensuring high-quality and maintainable code
- Hotel Management System: Designed and deployed a scalable Hotel Management System using React.js, Node.js(ECMAScript) and MongoDB, Firebase for streamline deployment, improving reliability, scalability, and operational efficiency