

Preetham Bhavirisetty

Portfolio: <https://www.preetham.online>

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PROFESSIONAL SUMMARY

Software Developer with 3+ years of experience in full-stack development and distributed systems, specializing in enterprise-scale applications. Currently an SDE at IBM, contributing to billing systems processing 10K+ daily transactions. Skilled in Java, Python, React.js, AWS services, microservices, and event-driven systems. Achieved 40% performance optimization and 99.9% uptime with caching and automated monitoring. Experienced in agile methodologies, prioritizing code quality and team collaboration.

SKILLS

Backend Development: Java (Spring Boot, Spring WebFlux), Python (Flask), GraphQL

Frontend Development: JavaScript/TypeScript, React.js, Next.js, HTML5/CSS3

State Management & Styling: Redux Toolkit, TailwindCSS, Material-UI

Data Visualization & UX: Framer Motion, D3.js, Chart.js

Version Control & CI/CD: Git, GitLab, AWS CodePipeline, Jenkins

Monitoring & Testing: Prometheus, Grafana, Sentry, Jest, JUnit, Cypress, k6

AWS services: ECS with Fargate, EventBridge, CloudFront, Aurora, GuardDuty, ElastiCache, AWS MQ, SNS.

PROFESSIONAL EXPERIENCE

Software Development Engineer | Sodexo (IBM), Binghamton, NY | May 2023 – December 2024

- Architected microservices using Java Spring Boot and React.js, handling 10K+ daily transactions with 99.9% uptime through AWS ECS and Fargate
- Implemented event-driven architecture using Apache Kafka and AWS EventBridge, reducing data processing latency by 25% for real-time billing updates
- Designed secure RESTful APIs with Spring WebFlux and API Gateway, processing 50K+ monthly API calls while maintaining sub-200ms response times
- Developed interactive dashboards using React.js, Redux Toolkit, and D3.js, improving billing visibility and reducing query time by 40%
- Orchestrated multi-region deployment using AWS CloudFront and Aurora, achieving 99.95% availability and 30% improvement in response times

Software Developer | Accenture, Hyderabad, India | May 2021 - July 2022

- Collaborated on transaction monitoring system development using React.js and Java Spring Boot, supporting processing of \$3M+ daily transactions
- Supported implementation of fraud detection mechanisms using AWS GuardDuty and ML models, helping improve suspicious transaction detection by 35%
- Developed caching solutions using Redis and AWS ElastiCache as part of performance optimization team, reducing database load by 40%
- Assisted in building event sourcing architecture with Apache Kafka and AWS MQ, supporting processing of 1K+ transactions per second
- Implemented alert notification features using WebSocket and AWS SNS, helping reduce incident response time by 45%

Associate Software Developer | Optum, Hyderabad, India | January 2021 – April 2021

- Developed frontend components for healthcare dashboard using React.js, Tailwind CSS, and Excel integration, improving report generation efficiency by 20%
- Implemented automated data validation scripts in Python for processing healthcare records, reducing manual verification time by 30%
- Built RESTful APIs using Python Flask to integrate with existing healthcare systems, handling 500+ daily requests for patient data retrieval
- Collaborated with the DevOps team to implement automated testing workflows, achieving 85% test coverage for new features

EDUCATION

Master of Science in Computer Science | Binghamton University, Binghamton, NY | December 2024

Relevant Coursework:

Cloud Computing Architecture, Distributed Systems, Multi-tiered Systems, Software System Design, Database Management Systems, Machine Learning, Data Structures and Algorithms, Operating Systems, Object-Oriented Programming

PROJECTS

Market Sales Analysis - [Dashboard](#) March 2024

- Developed a financial analytics dashboard integrating Pandas and Tableau, implemented automated revenue forecasting models with 25% improved accuracy, and created dynamic billing trend visualizations, reducing reporting time by 40%

GeoRoute - [GitHub](#) October 2022 – November 2022

- Developed a real-time route visualization website using Python backend APIs and ReactJS frontend, implementing RESTful services for efficient route calculations and interactive map features