

Anand Kumar

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Professional Summary

Experienced Software Engineer with a strong background in designing and developing scalable, full stack solutions using Java, SQL, and Python. Proven expertise in building intuitive applications, optimizing performance, and harnessing big data for actionable financial insights. Demonstrated track record in enhancing system scalability and operational efficiency, with hands-on experience in microservices, RESTful APIs, and cloud-native architectures.

Education

University of Bridgeport, Master's in Computer Science

Jan 2024 - April 2025

• **GPA :** 3.8

• **Achievements:** Teaching Assistant: University Of Bridgeport – Bridgeport, CT Sep 2024 – April 2025 Empowered 70% of students to master NLP and LLM concepts through in-depth explanations of deep learning, transformer models, and practical applications. Conducted research in NLP and LLMs, staying abreast of industry advancements.

Experience

Software Engineer: Howden Group Holdings – Hyderabad, India

Oct 2021 – Dec 2023

- Engineered distributed microservices and APIs using Java 17, Spring Boot, and WebFlux, leveraging system architecture and design patterns to boost system scalability by 40%.
- Delivered 15+ data-driven projects by designing scalable RESTful APIs with Spring Boot and Spring MVC, optimizing backend processing by 30% while employing asynchronous programming, multi-threading, and efficient Java Streams.
- Integrated front-end and back-end systems across 15+ cloud-native microservices using React, Java 17, Spring Boot, and WebFlux, enhancing user experience with intuitive application interfaces and reducing overall response times by 40%.
- Implemented real-time data synchronization with Apache Kafka and React-based dashboards, enabling immediate insights for users by reducing inter-service latency by 50%.
- Developed CI/CD pipelines and established observability for React-SPA deployments using Docker, GitHub Actions, and Grafana, achieving zero-downtime rollouts and 60% faster incident resolution to support continuous improvement.

Software Engineer: Zensar Technologies Ltd – Hyderabad, India

Aug 2020 – Sep 2021

- Engineered and optimized scalable microservices using Spring Boot and REST APIs, streamlining claims and policy data flows across distributed systems and reducing processing latency by 40% under peak loads while driving best practices and engineering excellence. Built PL/SQL functions and triggers to support transactional consistency across distributed systems. Enhanced MongoDB schema design and implemented Redis-based caching for reduced API latency.
- Enhanced database performance by redesigning MongoDB schemas and tuning SQL queries, employing advanced indexing strategies to improve response times by up to 50% and ensure system reliability during high-traffic periods.

Projects

Voice-Activated Business Intelligence Dashboard

- Developed a voice-controlled BI dashboard that reduced data access time by 70% using OpenAI GPT-4o and Azure Whisper, enabling real-time speech-to-SQL conversion for non-technical business users.
- Improved user decision-making efficiency by 60% by implementing dynamic visualizations (charts, maps, KPIs) with drilldowns and filters, powered by SQL Server analytics and rendered via React.
- Built and deployed a cloud-ready SaaS platform with secure JWT-based authentication, role-based access control, and an integrated natural language query engine (FastAPI + pyodbc), achieving 95% accuracy in SQL generation from voice prompts while ensuring 100% data protection across multilingual and noisy environments.

Technologies

Programming Languages: Java, Python, SQL, JavaScript, TypeScript, Shell

Cloud: GCP (BigQuery, Vertex AI, Gemini AI), AWS, Azure (App Services, DevOps)

Frameworks: Spring Boot, Spring AI, Spring Data JDBC, Spring Kafka, ReactJS, HTMX

Technologies: SSMS, Postman, Power BI, VS Code, Eclipse

Software Engineering: Full Stack Development, Big Data, Software Development Life Cycle, Design Patterns, Code Reviews, Source Control Management, Build Processes, Operations, Testing, Computer Science Degree

Certifications

Completed Azure Administrator Associate.AZ-104

Completed Azure Fundamentals By Microsoft.AZ-900