Awais Hussain Software Engineer

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PROFESSIONAL SUMMARY

Highly skilled Software Engineer with 5+ years of experience in full-stack development, specializing in web applications, microservices, and cloud deployment. Proficient in React.js, Java, Spring Boot, and AWS, with expertise in building responsive, scalable, and secure applications. Proven track record in optimizing performance, implementing state management solutions, and integrating real-time features. Strong background in Agile development, CI/CD pipelines, and database management (PostgreSQL, MongoDB). Passionate about delivering high-quality, user-focused software solutions.

TECHNICAL SKILLS

- **Frontend Development**: React.js, CSS, React Hooks, Redux, Context API, WebSocket, Angular
- **Backend Development**: Java, Spring Boot, Spring Cloud, RESTful APIs, Microservices, Node.js
- **Database Management**: PostgreSQL, MongoDB, MySQL, Amazon RDS, Redis
- **Cloud & DevOps**: AWS (EC2, S3, Lambda, RDS), Azure (App Services, AKS), Docker, Kubernetes, Jenkins, GitLab CI
- **Security & Authentication**: OAuth2, JWT, Role-Based Access Control (RBAC), SSL/TLS encryption, bcrypt, Azure Key Vault
- **Monitoring & Logging**: Prometheus, Grafana, ELK Stack, Azure Monitor, Application Insights
- **Messaging & Data Streaming**: Kafka, RabbitMQ
- **Performance Optimization**: Code Splitting, Tree Shaking, Asynchronous Architecture, Caching Strategies
- **Testing**: JUnit, Mockito, Pact (Contract Testing)
- **Project Management & Collaboration**: Agile (JIRA), Confluence, CI/CD, Automated Deployments (Blue-Green, Canary)

WORK EXPERIENCE

Software Engineer, DXC Technology **Jan 2024 – Present | Remote, USA**

- Designed and developed responsive, user-friendly web applications using React.js and CSS, improving user engagement by 30% through enhanced UI components, faster loading times, and a seamless user experience across devices.
- Implemented state management solutions with Redux and Context API, ensuring smooth data flow across components, reducing state-related issues, and enhancing the efficiency of complex UI elements for an optimized frontend experience.
- Built and optimized secure APIs using Spring Boot, following best practices for RESTful services, ensuring scalability, efficient data retrieval, and integration with frontend components for enhanced performance and reliability.
- Integrated real-time features such as notifications, dynamic form validations, and interactive charts in the frontend, providing an engaging and intuitive user experience with real-time updates and improved interactivity.
- Developed and embedded security features like data encryption, audit trails, and role-based access control in the Secure Document Management System, ensuring regulatory compliance, robust data protection, and secure document handling for clients.
- Deployed and managed applications on AWS using services like EC2, S3, Lambda, and RDS, achieving a 40% reduction in infrastructure costs while optimizing resource usage, scalability, and high availability.
- Designed, implemented, and optimized relational (PostgreSQL) and non-relational (MongoDB) databases, ensuring efficient queries, data integrity, and 99.98% availability, while providing scalable solutions for complex data structures and high traffic volumes.
- Collaborated with UI/UX designers to transform design mockups into high-quality, pixel-perfect code, maintaining consistency across all pages, optimizing UI performance, and ensuring a polished user interface across devices and screen sizes.

Software Engineer, Infosys **Sep 2022 – Dec 2022 | Bangalore, India**

- Engineered real-time data exchange services using WebSocket and Java NIO for sub-millisecond latency, enabling seamless inventory and pricing updates across multiple client dashboards with high data throughput in a distributed environment.
- Designed and implemented RESTful microservices with Spring Boot and Spring Cloud, incorporating JWT, OAuth 2.0, and RBAC for enterprise-level authentication and authorization, ensuring secure, scalable, and compliant transaction processing and user management.

- Implemented React Hooks and Context API to manage global state, eliminating external libraries and reducing bundle size. Optimized rendering performance through tree shaking, code-splitting, and component-level optimization for faster load times and smoother user experiences.
- Designed an asynchronous, event-driven architecture with Kafka and RabbitMQ, decoupling microservices and ensuring reliable, fault-tolerant communication across distributed systems, improving data consistency and scalability for the entire application ecosystem.
- Automated CI/CD pipelines using Jenkins and GitLab CI, integrating Docker containers for consistent environments and deploying on AWS EC2 and EKS. Implemented Blue-Green and Canary deployment strategies for zero- downtime releases and efficient rollback procedures.
- Integrated Prometheus for metrics collection, Grafana for real-time dashboards, and the ELK Stack for centralized logging, enabling proactive monitoring, issue detection, and performance optimization to ensure system health and minimize downtime.
- Automated API lifecycle management with contract testing using Pact, ensuring API reliability, backward compatibility, and seamless integration, while establishing an API-first design approach to maintain consistency across backend and frontend services
- Managed Agile development processes using JIRA, driving sprint cycles, issue tracking, backlog grooming, and ensuring timely delivery. Conducted daily standups and sprint retrospectives to maintain development velocity and improve collaboration across teams.
- Documented technical designs, API specifications, deployment workflows, and troubleshooting guidelines on Confluence, ensuring transparent knowledge sharing, team collaboration, and streamlined onboarding for new developers within the organization.

Software Engineer, HCL Technologies Ltd. **Aug 2018 – Aug 2022 | Bangalore, India**

- Created RESTful APIs using Java and ReactJS, ensuring efficient client integration and smooth communication, while maintaining high availability and minimal downtime across various business applications
- Leveraged Azure App Services and Azure Kubernetes Service (AKS) for seamless deployment and scaling, ensuring optimal resource utilization, automatic scaling, and handling fluctuating workloads with ease
- Developed comprehensive unit and integration tests using JUnit and Mockito, achieving over 95% code coverage to identify bugs early, reducing post-deployment issues and improving software reliability.
- Contributed to the development of a hybrid-cloud, multi-tenant data platform on Azure, streamlining data workflows for machine learning, analytics, and operational processes, enhancing overall efficiency
- Integrated Azure Monitor and Application Insights to enable real-time monitoring, ensuring 99.9% uptime and quick issue detection, allowing for proactive troubleshooting and performance optimization.
- Conducted performance tuning, improving application response times by 25%, optimizing code, and utilizing caching strategies to reduce latency and enhance the user experience.
- Implemented industry-standard security measures, including SSL/TLS encryption, bcrypt for password hashing, and Azure Key Vault for secure management of sensitive credentials, ensuring compliance and data protection.

EDUCATION

University of Texas at Arlington, GPA: 4.0/4.0 **January 2023 – December 2024**
Master of Science; Major in Computer Science Arlington, USA

GITAM School of Technology **June 2014 – April 2018**
Bachelor of Technology; Major in Computer Science and Engineering Bangalore, India

ACADEMIC PROJECTS

Cloud-Based Inventory Management System

Technology: React.js, Node.js, PostgreSQL, Azure, Docker, Kubernetes, Azure Monitor

Developed a scalable, cloud-based inventory management system designed to handle large volumes of inventory data for multi-location retail businesses. The system provided real-time updates on stock levels, automated reorder notifications, and offered detailed reporting on inventory trends. Built using React.js for the frontend and Node.js for the backend, the application integrated with PostgreSQL for relational data storage and was deployed on Azure using Docker containers and Kubernetes for high availability and scalability. Integrated Azure Monitor for system performance monitoring and implemented role- based access control to ensure secure data handling.

AI-Driven Food Delivery & Recommendation Platform

Technology: Java, Spring Boot, React.js, PostgreSQL, MongoDB, OAuth2, JWT, Docker, Kubernetes, AWS Lambda, TensorFlow

Developed an AI-powered food delivery platform with personalized recommendations using TensorFlow, increasing customer retention by 25%. Built Spring Boot microservices secured with OAuth2 and JWT, and a responsive React.js frontend for seamless ordering. Integrated PostgreSQL and MongoDB for reliable order and inventory management. Deployed scalable services on AWS Lambda and Kubernetes, maintaining 99.9% uptime.