Ashish Tiwari

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SUMMARY

Highly skilled and experienced Full Stack Software Engineer with 10+ years of expertise in developing enterprise web applications using Java, React, and cloud-native technologies. Specialized in microservices architecture, cloud solutions (AWS, GCP), and building scalable, high-performance platforms that drive business growth.

EDUCATION

Master of Science: Computer Science

California State University, Fullerton, CA, USA (GPA: 3.77)   *08/2022 – 05/2024*

Bachelor of Engineering: Computer Science

Rajiv Gandhi Technical University, Bhopal, MP, India (68.47%)   *06/2007 – 04/2011*

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, TypeScript, PHP, HTML, CSS, SQL
Libraries & Frameworks: JQuery, React, Redux, Next.js, Node.js, Express, EJB, JPA, Spring, Spring Boot, Hibernate
Cloud Technologies: AWS (EC2, S3, Lambda, Glue, SQS, SNS, CloudWatch), Google Cloud Platform, Spring Cloud
DevOps Tools: Jenkins, Git, GitHub, Terraform, Jira, Prometheus, Grafana, Docker, Kubernetes, Azure DevOps
Databases: Oracle, MySQL, MongoDB, PostgreSQL, Cassandra, RDS, DynamoDB, Apache Spark, Kafka, Redis
Development Tools: Eclipse, NetBeans, VS Code, IntelliJ, SonarQube, JUnit, Jest, Mocha, Selenium, Postman
Methodologies: Agile/Scrum, OOP, TDD, CI/CD, REST APIs, GraphQL, Microservices, Event-Driven Architecture

WORK EXPERIENCE

Student Web Developer

California State University, Fullerton, CA, USA   *11/2022 – 04/2024*

- Maintained the university's official website and student portal, ensuring timely updates and accessibility for users. Collaborated with various departments to gather requirements and implement features that enhance user experience and improve functionality.
- Implemented best practices in web development, including SEO optimization and mobile responsiveness, to enhance visibility and accessibility. Conducted regular testing and troubleshooting to identify and resolve issues, maintaining a seamless user experience for students and faculty.

Senior Software Engineer

Ntier Infotech, Indore, India   *06/2015 – 06/2022*

- Architected and developed highly scalable, high-performance software and web applications using a robust tech stack, including Java, Spring Boot, React, Node.js, and JavaScript, to meet complex business and user requirements.
- Engineered and deployed scalable RESTful APIs and microservices, delivering a seamless user experience, improving system performance by 25%, and supporting millions of daily transactions.
- Leveraged containerization with Docker and orchestration using Kubernetes, resulting in a 40% reduction in deployment times, enhancing the efficiency of continuous integration and delivery pipelines.
- Collaborated with key stakeholders, including product managers and clients, to deliver high-impact projects on time, aligning technical strategies with business goals and driving significant operational improvements.
- Led cross-functional teams to implement new product features, achieving an 18% increase in user engagement, a 22% growth in site traffic, and a 25% boost in team collaboration and productivity through strategic initiatives.
- Optimized legacy codebases by refactoring and implementing performance enhancements, improving system efficiency by 35% while reducing server costs by 15%, ensuring robust and scalable solutions.

Software Engineer

Parkhya Solutions, Indore, India   *03/2012 – 05/2015*

- Developed dynamic, visually appealing, and custom web applications and e-commerce platforms using JavaScript, jQuery, HTML5, and CSS3 and CMS frameworks like WordPress, Drupal, and Magento.

PROJECTS

Ecommerce Website:

Technologies: React, Node.js, MongoDB, Stripe, PayPal, JWT, OAuth2, WebSockets

- Developed a dynamic, feature-rich e-commerce platform supporting seamless browsing and purchasing across categories like clothing, electronics, and shoes.
- Implemented secure payment gateways (Stripe, PayPal) for safe transactions.
- Integrated user authentication using JWT and OAuth2 for enhanced security.
- Developed real-time order tracking functionality utilizing WebSockets.

Share Market Application:

Technologies: React, Redux, Next.js, Express, WebSockets

- Engineered a real-time share market application providing live data streams of stock prices and market trends.
- Utilized WebSockets for real-time updates on stock performance.
- Implemented features for historical performance analysis to support informed decision-making.
- Integrated third-party APIs for comprehensive market data access.

E-Learning Platform:

Technologies: React, Java, Spring Boot, RESTful API, RBAC

- Built a robust e-learning platform for Computer Science courses featuring interactive components such as quizzes, progress tracking, and discussion forums.
- Integrated a RESTful API for seamless communication between frontend and backend.
- Implemented role-based access control (RBAC) for effective user management.
- Optimized for mobile responsiveness to ensure a consistent user experience across devices.

ETL Pipeline for retail transactions data:

Technologies: Apache Spark, Kafka, AWS S3

- Architected an efficient ETL pipeline for processing large-scale retail transaction data.
- Leveraged Apache Spark for distributed data processing and Kafka for real-time streaming..
- Integrated with AWS S3 for reliable data storage and optimized for scalability and fault tolerance.

AWS Data Lake for smart city initiative:

Technologies: AWS S3, AWS Lambda, AWS Glue, AWS Athena, AWS QuickSight

- Data lake solution on AWS for analyzing large-scale IoT sensor data from a smart city initiative.
- Utilized S3 for data storage and Lambda for serverless data processing.
- Employed Glue for ETL orchestration, enabling real-time and batch data analysis.

Microservices-Based Inventory Management System

Technologies: Java, Spring Boot, AWS Lambda, Amazon DynamoDB, AWS API Gateway, Apache Kafka, Terraform

- Developed a microservices-based inventory management system to automate inventory tracking and forecasting.
- Integrated Amazon DynamoDB for real-time data storage and retrieval.
- Implemented a Kafka event-driven architecture for real-time inventory updates.

Serverless Customer Notification System

Technologies: Java, AWS Lambda, AWS SNS, AWS SQS, AWS CloudWatch, Prometheus

- Designed a serverless customer notification system for delivering real-time alerts and updates.
- Integrated AWS SQS and SNS for efficient message queuing and delivery, ensuring high reliability and performance. Implemented monitoring using AWS CloudWatch and Prometheus for proactive alerting.

CERTIFICATIONS

- Building Scalable Java Microservices with Spring Boot and Spring Cloud – Google
- Google Cloud Data Analytics – Google Cloud
- Developing Back-End Apps with Node.js and Express – IBM
- Distributed Computing with Spark SQL - University of California, Davis