

SANDEEB ADHIKARI

Full Stack Developer

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[Sandeep Adhikari](#) | [LinkedIn](#)

Professional Summary

Highly accomplished Full Stack Developer with extensive experience in building end-to-end web applications and enterprise solutions. Expert in Java, Spring Boot, Hibernate, and RESTful APIs for robust backend development, coupled with proficiency in Angular, React, JavaScript, and HTML/CSS for dynamic and responsive frontend design. Adept at developing applications following Microservices Architecture, ensuring scalability and modularity.

Extensive experience with relational databases such as MySQL and Oracle, as well as NoSQL databases like MongoDB. Skilled in containerization using Docker, orchestrating deployments with Kubernetes, and implementing CI/CD pipelines with Jenkins. Proficient in using Git for version control, Maven/Gradle for build automation, and Junit and Mockito for unit testing.

Well-versed in Agile methodologies and collaborating with cross-functional teams to deliver high-quality, on-time solutions. Strong understanding of Object-Oriented Programming (OOP), Data Structures, and Design Patterns, ensuring efficient and maintainable code. Passionate about leveraging Cloud Platforms like AWS and Azure to design and deploy highly available and secure applications. Seeking to bring technical expertise and innovative solutions to a forward-thinking organization.

Education

NJIT - Ying Wu College of Computing | Bachelor's Degree | **B.S. in Computer Science**

Work Experience

Capital One

New York, NY

Senior React Developer

Oct '23-Present

- ❖ Developed and optimized highly interactive user interfaces using React.js, Redux, and Material-UI, ensuring seamless user experience and accessibility across devices.
- ❖ Built reusable and modular front-end components, improving maintainability and development efficiency.
- ❖ Integrated RESTful APIs with React applications, ensuring secure and efficient data exchange between front-end and back-end systems.
- ❖ Enhanced application performance through state management optimization, memorization, and lazy loading techniques.
- ❖ Implemented OAuth2 and JWT authentication, strengthening security for user interactions.
- ❖ Implemented real-time data processing solutions using Apache Kafka, optimizing transaction handling and event streaming.
- ❖ Built and maintained cloud infrastructure using AWS, employing Lambda for serverless computing and S3 for secure data storage.
- ❖ Conducted unit and integration testing with JUnit, Mockito, and Postman, ensuring code quality and system reliability.
- ❖ Collaborated with cross-functional teams, including UX/UI designers and backend developers, to align UI components with business logic.
- ❖ Streamlined development workflows using Git, CI/CD pipelines, and Docker, improving deployment efficiency and code quality.
- ❖ Worked in Agile development environments, using JIRA for sprint planning, issue tracking, and project documentation.
- ❖ Provided mentorship to junior developers, fostering knowledge-sharing and best practices in React development.
- ❖ Designed and implemented high-performance backend services using ASP.NET Core to process and manage financial data, ensuring scalability, reliability, and compliance with stringent security requirements.
- ❖ Integrated Entity Framework Core with Oracle Database to streamline data retrieval and management, optimizing loan processing workflows and improving operational efficiency.

Environment: React.js, Redux, TypeScript, Material-UI, RESTful APIs, OAuth2, JWT, Jest, React Testing Library, Docker, CI/CD, JIRA, Agile.

T-Mobile

Cary, NC

Full Stack Developer

Feb '21 - Sep '23

- ❖ Designed and implemented enterprise-grade web applications using Java, Spring MVC, and Thymeleaf, delivering seamless user experiences.
- ❖ Built modular and reusable UI components with Angular, TypeScript, and SCSS, ensuring cross-browser compatibility and responsiveness.
- ❖ Developed SOAP and RESTful APIs, enabling integration with external services and ensuring secure data transactions.
- ❖ Deployed containerized applications using Docker and managed orchestration with Kubernetes for consistent multi-environment operations.
- ❖ Integrated real-time messaging and notifications using WebSocket and RabbitMQ, improving user interaction.
- ❖ Optimized backend performance by implementing data caching with Redis and utilizing PostgreSQL for relational data management.
- ❖ Improved log analysis and error detection through Elasticsearch and Logstash, enabling faster troubleshooting.
- ❖ Conducted continuous integration and deployment with GitLab CI/CD, reducing manual intervention in build processes.
- ❖ Automated end-to-end testing with Protractor and Selenium, ensuring flawless user experiences.
- ❖ Worked closely with DevOps teams to monitor production systems via Prometheus and Grafana, maintaining system reliability.
- ❖ Collaborated with .NET developers to integrate RESTful APIs between backend services built on .NET Core and Angular-based frontend systems, ensuring seamless communication and real-time data exchange for enhanced user experiences.

- ❖ Leveraged ASP.NET Core to develop a robust microservice for user authentication, enabling secure and scalable access to enterprise applications while adhering to industry-standard security protocols.
- Environment:** Java, Spring MVC, Thymeleaf, Angular, TypeScript, SCSS, PostgreSQL, Docker, Kubernetes, RabbitMQ, WebSocket, Elasticsearch, Logstash, GitLab CI/CD, Protractor, Selenium, Prometheus, Grafana.

Ford-Motor
Full Stack Developer

Dearborn, MI
Aug '19 - Jan '21

- ❖ Developed robust and scalable applications for vehicle management systems using Java, Struts, and EJB frameworks.
 - ❖ Built and styled modern UI components with Vue.js, Vuetify, and JavaScript, enhancing internal tools for fleet management.
 - ❖ Designed and implemented SOAP and REST APIs, enabling seamless communication across business systems and external vendors.
 - ❖ Utilized MongoDB for managing unstructured vehicle data and optimized storage solutions for large datasets.
 - ❖ Enabled real-time data streaming and analytics using Apache Kafka, improving operational insights.
 - ❖ Automated build and deployment pipelines with Azure DevOps, ensuring streamlined software delivery.
 - ❖ Integrated search functionalities using Elasticsearch, facilitating faster data retrieval for internal applications.
 - ❖ Employed SonarQube for static code analysis, maintaining high coding standards and reducing vulnerabilities.
 - ❖ Configured ActiveMQ for reliable message queuing, improving system integration processes.
 - ❖ Worked with cross-functional teams using Azure Boards and implemented Agile methodologies, accelerating project completion.
- Environment:** Java, Struts, EJB, Vue.js, Vuetify, MongoDB, Apache Kafka, Elasticsearch, Azure DevOps, SonarQube, ActiveMQ, Azure Boards, SOAP APIs, RESTful APIs.

Projects

Loan Approval Automation System for Capital One

Implemented a loan approval system using **Java**, **Spring Boot**, and **Hibernate**, optimizing decision-making processes. Designed a modern React.js interface with Redux and Material-UI, improving user accessibility for internal teams. Built secure RESTful APIs for real-time communication between systems, integrating authentication through OAuth2 and JWT. Deployed serverless workflows with AWS Lambda and ensured scalability and fault tolerance. Leveraged Jenkins for continuous integration and Docker for deployment across multiple environments. Monitored and debugged application performance using New Relic and Splunk, reducing downtime and enhancing operational efficiency.

Automated Billing System for T-Mobile

Engineered an automated billing solution leveraging Java and Spring MVC to streamline billing processes and reduce manual intervention. Designed intuitive Thymeleaf templates for the frontend, enhancing user interaction and accessibility. Managed data transactions with PostgreSQL and ensured data integrity through robust RESTful APIs. Deployed the application using Docker containers and managed orchestration with Kubernetes for efficient resource utilization. Implemented GitLab CI/CD pipelines to automate testing and deployment, utilizing Protractor and Selenium for end-to-end testing. Enhanced system monitoring and alerting with Prometheus and Grafana, ensuring high availability and performance.

Vehicle Diagnostic Data Processing System for Ford Motor

Designed and deployed a Vehicle Diagnostic Data Processing System using Java, Struts, and EJB, enabling proactive vehicle health monitoring. Created a modern and interactive interface with Vue.js and Vuetify, providing real-time diagnostic updates. Utilized ActiveMQ for efficient message queuing between diagnostic devices and the central system. Integrated MongoDB to store large volumes of diagnostic data and Elasticsearch for efficient search and retrieval of vehicle records. Built RESTful APIs to expose data to third-party analytics tools and streamlined task management via Azure Boards. Ensured robust testing and deployment pipelines using Azure DevOps for continuous delivery.

Skills

Programming Languages:	Java, Python, JavaScript, Node.js, SQL, PHP, C, C++ IDE Tools: Eclipse, NetBeans, IntelliJ IDEA, Spring Tool Suite (STS), Maven, Gradle
Web/App/DB Servers:	WebLogic, Apache Tomcat, JBoss Web Services: SOAP, JAX-RS, JAX-WS, RESTful Web Services, Microservices
Web Development:	HTML, CSS, JavaScript, jQuery, React JS, Ajax, Bootstrap, Angular, Angular JS, Bootstrap
Cloud Technologies:	AWS, Google Cloud Platform, Microsoft Azure
No SQL Databases:	MongoDB, Apache Cassandra, Redis
Relational Databases:	MySQL, MS-SQL Server, Oracle, SQL Server, PostgreSQL
Tools:	Git, Docker, Postman, Jenkins, Kubernetes, Bamboo, Hudson, JIRA, Jenkins, Spring Boot Actuator
Build and Testing Tools:	JUnit, TestNG, Mockito, Apache JMeter, AssertJ, Jest, Mocha
Logging and Monitoring Tools:	Log4j, Prometheus, Grafana, Splunk
Web Technologies:	Servlet and JSP, Spring Frameworks (Spring MVC, Spring Boot), Hibernate ORM, JavaServer Faces (JSF), Java Persistence API
Version Controls:	GIT (Github, Gitlab, BitBucket), SVN, CVS, JIRA
Methodologies and Practices:	Agile Development, Test Driven Development, Object Oriented Programming, Continuous

Integration/Continuous Deployment (CI/CD) pipelines, Domain-Driven Design (DDD), Event-Driven Architecture (EDA)