**Ammar Ahmed**

**(469) 575-5201**

**ammar.ahmed.tech@hotmail.com**

I'm a Full Stack Developer with over 7 years of experience building scalable and efficient applications. On the backend, I work with Spring Boot and Node.js to create robust and high-performance solutions. On the frontend, I enjoy crafting dynamic and responsive user interfaces with Angular and React. I’m passionate about seamless integration, performance optimization, and writing clean, maintainable code that drives real business impact.

**Skills:**

* **DevOps & CI/CD:** Proficient in automating deployments, infrastructure management, and monitoring.
* **Back-end Development:** Expertise in designing scalable, secure, and high-performance APIs.
* **Front-end Development:** Skilled in building responsive and dynamic user interfaces.
* **Database Management:** Strong experience with relational and NoSQL databases, query optimization.
* **Version Control:** Expertise in Git workflows using GitHub, GitLab, and Bitbucket.
* **Code Analysis & Testing:** Experienced in security scanning, code reviews, and automated testing.
* **Server Management:** Hands-on experience in server optimization and administration.
* **Performance Optimization:** Focused on improving system efficiency and scalability.
* **Scripting & Automation:** Writing automation scripts to enhance workflow efficiency.
* **Problem-solving & Debugging:** Strong analytical skills for identifying and resolving complex issues.
* **Communication & Collaboration:** Excellent teamwork and leadership abilities.

**Technical Skills:**

* **Programming Languages:** Java (8, 11, 17), Python, JavaScript, TypeScript, Shell Script, SQL, PL/SQL
* **Frameworks & Libraries:** Spring Boot, Hibernate, JPA, JMS, JSP, Servlets, JDBC, Angular, React
* **Architecture & Design Patterns:** MVC, DTO, DAO, REST API, SOAP
* **DevOps & CI/CD Tools:** Docker, Kubernetes, Terraform, AWS, Jenkins, SonarQube, Checkmarx, Black Duck, NexusIQ
* **Version Control:** Git (Bitbucket, GitHub, GitLab)
* **Database Technologies:** MongoDB, MySQL Workbench, Swagger, Postman
* **Application Servers:** Tomcat, WebLogic
* **Operating Systems:** RHEL8
* **Development Tools & IDEs:** Eclipse, IntelliJ, VSCode, Lens
* **Agile & Project Management:** Agile, JIRA

**Education:**

* **Status:** U.S. Citizen
* Bachelor of Science in Computer Science – Allama Iqbal Open University, Islamabad, Pakistan (2019)

**LinkedIn:**

[**https://www.linkedin.com/in/ammar-ahmed-290550215/**](https://www.linkedin.com/in/ammar-ahmed-290550215/)

**Professional Experience:**

**Copart**  
**Software Engineer** | January 2023– Present

**Key Responsibilities:**

* Leading the design and development of application architecture, focusing on framework development and seamless deployment to Amazon EKS.
* Deployed and managed scalable microservices on Amazon EKS, utilizing Kubernetes for orchestration, auto-scaling, and container lifecycle management.
* Designed and exposed APIs through Amazon API Gateway, implementing throttling, caching, and Lambda proxy integrations to optimize performance and security.
* Integrated AWS Cognito for secure authentication and identity federation across web and mobile platforms, including support for MFA and OAuth2 protocols.
* Designed and implemented microservices architecture, deploying applications to EKS using Docker and JFrog Artifactory.
* Upgraded legacy applications to React 18, leveraging features such as concurrent rendering and automatic batching to enhance performance and responsiveness.
* Optimized UI rendering with React 18's Concurrent Mode, ensuring smooth, non-blocking updates.
* Integrated Suspense for Data Fetching to simplify asynchronous operations and improve application loading states.
* Spearheaded technical initiatives, collaborating with business teams, architectural boards, change management, security, and support teams.
* Enhanced the Ivy rendering engine in Angular 12, optimizing performance and reducing bundle size.
* Developed responsive web interfaces using Bootstrap, ensuring cross-device compatibility and efficient UI design.
* Ensured consistent user experiences by conducting thorough browser compatibility and cross-browser testing.
* Developed microservices using Spring Boot and front-end applications using Angular 9 and 12.
* Created reactive forms and implemented various UI validations for improved user interaction.
* Collaborated with data science teams to integrate machine learning models for fraud detection using Python and Scikit-learn.
* Developed Python scripts for data validation and cleansing, ensuring high-quality system inputs.
* Integrated Python-based solutions into the existing Java and Spring Boot tech stack for enhanced functionality and performance.
* Utilized Python for logging, error tracking, and monitoring to improve system reliability and minimize downtime.
* Managed containerized applications on EKS, utilizing nodes, ConfigMaps, selectors, and services to deploy applications as Pods.
* Created and managed Docker images, pushing them to JFrog Artifactory for version control.
* Developed and maintained APIs using IBM API Connect, ensuring secure and efficient data exchange between applications.
* Implemented API security policies, traffic management, and monitoring for optimized performance and security.
* Managed artifact versioning in Artifactory, adhering to standard practices.
* Utilized Java build tools such as Maven and Gradle for project management and dependency resolution.
* Deployed Java applications on web servers like Apache Tomcat and JBoss.
* Used IDEs like IntelliJ IDEA, Eclipse, and NetBeans for efficient Java development.
* Configured CI/CD pipelines with Jenkins for automated Java builds and deployments.
* Integrated logging and monitoring using Log4j and the ELK stack for Java applications.
* Deployed multiple Pods and managed end-to-end application lifecycle on Kubernetes.
* Implemented security measures at both the namespace and network levels in Kubernetes.
* Designed and implemented CI/CD pipelines using Jenkins.
* Configured SSL certificates at the network level to secure application traffic.
* Implemented authentication and authorization mechanisms using ForgeRock and MuleSoft.
* Integrated Veracode security scanning in Jenkins CI/CD pipelines to ensure code security before deployment.
* Conducted multiple knowledge transfer sessions for developers and new team members on Kubernetes Pods, Deployments, Services, and CI/CD integration.
* Diagnosed and resolved Kubernetes-related issues in Pod deployments and services.
* Applied GraphQL concepts such as schemas, types, queries, mutations, subscriptions, and directives to enhance API efficiency.
* Migrated REST APIs to GraphQL for improved performance and flexibility.
* Created and deployed Kubernetes Pods using YAML scripts, managing Docker containers across various environments.
* Implemented authentication security measures for MongoDB databases.
* Developed a hybrid mobile platform for automotive applications using JavaScript and React Native, achieving 88% code reusability across iOS and Android while reducing development time by 33%.
* Built high-performance iOS applications leveraging the iOS SDK, Cocoa Touch Framework, and various core technologies such as UIKit, Core Data, MapKit, and Core Bluetooth.
* Developed responsive iOS native applications using Swift to enhance user experience.
* Managed project tasks and timelines using Workfront to ensure timely software delivery.
* Streamlined team collaboration using Workfront for task tracking and project planning.
* Developed backend services for storing and retrieving user data from MongoDB.
* Designed and implemented microservices following MicroProfile specifications for enhanced interoperability and performance.
* Utilized MicroProfile’s built-in metrics and health checks to ensure microservices reliability in production.
* Installed and configured MongoDB and PostgreSQL on EKS Clusters, integrating them with microservices for data storage.

**Cloud Wave LLC**  
**Software Engineer** | June 2019 – January 2023

**Key Responsibilities**:

* Designed and developed the organization's website and custom web applications using jQuery, JavaScript, HTML, CSS, XML, and AJAX to deliver responsive and user-friendly experiences.
* Built interactive web applications using Node.js, improving performance, scalability, and maintainability.
* Developed services in Node.js to enhance system efficiency, streamline maintenance, and simplify deployment.
* Configured and maintained an EC2 Load Balancer to manage unstable cluster environments and ensure application stability.
* Implemented microservices architecture using Pivotal Cloud Foundry (PCF) with Spring Boot services for scalable deployment and improved performance.
* Developed and deployed architectural solutions involving multiple Pivotal Cloud Foundry (PCF) foundations on VMware virtual infrastructure (on-premises).
* Created and maintained high-performance RESTful services using Spring MVC and JAX-RS to support web and mobile applications.
* Developed SOA-compliant web services on JBOSS and WebLogic platforms to enhance service integration and communication.
* Managed service modeling, WSDL/XML data models, and data mapping using UML service profiles for SOA to support service specifications and implementations.
* Utilized Spark SQL and Scala queries to process structured data across text files, CSV files, and other data formats.
* Designed and implemented secure RESTful APIs and gRPC services using Go for efficient data exchange between services.
* Developed and supported EDI integrations for healthcare and insurance clients, converting data across X12 EDI, XML, flat files, and custom formats using Java and SQL to meet compliance and operational standards.
* Integrated Spring Security and JSON Web Tokens (JWT) to implement secure authentication and authorization mechanisms.
* Developed REST Web Services based on project requirements using Spring Framework, Java, and JavaScript, and documented them using Swagger UI for improved visibility and testing.
* Leveraged Spring MVC annotations to build controllers and handlers, implementing business logic efficiently.
* Utilized JAXB for marshalling and unmarshalling Java objects to and from XML for data transformation needs.
* Developed ANT build scripts to automate build processes, eliminating manual updates for XSD-generated Java files.
* Developed and maintained complex web application user interfaces using Vue.js, ensuring responsive design and optimal performance across devices.
* Integrated Vuex for effective state management and implemented Vue Router to enable seamless navigation and efficient routing in single-page applications (SPAs).
* Implemented application-level AJAX, JSON, XML, and jQuery interactions with RESTful Web APIs and web services to enhance data exchange and improve user experience.
* Utilized Mockito and other mocking utilities to simulate web services, database interactions, and static private methods for effective unit testing.
* Developed RESTful web service clients using Spring Web Services and designed secure client-server communication systems.
* Developed interfaces to integrate various business partners using XML, XSLT, and XSD, ensuring smooth data exchange.
* Created stored procedures, cursors, and triggers to manage batch jobs and data processing.
* Developed the persistence layer using Hibernate, configuring it for efficient database interaction.
* Designed and implemented robust security configurations in IBM DataPower, including SSL/TLS encryption, XML threat protection, and secure data exchange policies.
* Developed and managed DataPower services such as XML Firewall and Web Service Proxy to support diverse integration requirements while ensuring high availability and optimal performance.
* Integrated with external vendor services through secure web service communication.
* Designed and deployed SOA-compliant web services on JBOSS and WebLogic platforms to facilitate efficient service interaction.
* Managed service modeling, data mapping, and WSDL/XML data models using UML service profiles to align with SOA principles.
* Developed and deployed architectural solutions leveraging multiple Pivotal Cloud Foundry (PCF) foundations on VMware virtual infrastructure for improved scalability and stability in enterprise environments.