

Amit Maharjan

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SUMMARY

Versatile Full Stack Java Developer experienced in designing, building, and optimizing scalable enterprise applications using Java, Spring Boot, Spring MVC, Hibernate/JPA, and distributed system patterns. Skilled in developing secure REST/SOAP APIs, implementing authentication and authorization workflows (JWT, OAuth2, SAML, CAS SSO), and building resilient cloud-native services on AWS. Strong background in modernizing legacy Java systems, improving performance through caching and SQL tuning, and leveraging event-driven architectures with Kafka and AWS SQS. Adept at collaborating in Agile teams, troubleshooting complex production issues, mentoring peers, and delivering maintainable, high-quality solutions across diverse technology stacks. Well-rounded academic foundation in software engineering with hands-on project experience in microservices, machine learning, and full-stack development.

TECHNICAL SKILLS

Programming Languages: Java, Python, C#, C/C++, Groovy

Frameworks & Libraries: Spring Boot, Spring MVC, Spring Security, Spring Cloud, Hibernate/JPA, Struts2, ASP.NET MVC, .NET Core, Entity Framework, Grails, JUnit, Spock

Cloud & DevOps: AWS (EC2, S3, RDS, SQS, CloudWatch, Lambda, IAM), Oracle Cloud, Docker, Kubernetes, Jenkins, GitHub Actions, CI/CD, Linux/Unix/Solaris environments

APIs & Integrations: REST, SOAP, Swagger/OpenAPI, JSON, XML, XSD, YAML, Postman, SAML, OAuth2, JWT, Feign Client, Eureka, API Gateway

Messaging & Distributed Systems: Kafka, AWS SQS, Event-driven architecture, Microservices, Service discovery, Resilient/Retry messaging, DLQ patterns

Databases: MySQL, PostgreSQL, SQL Server, MongoDB, Oracle 19c, Redis (ElastiCache)

Frontend: Angular, TypeScript, JavaScript, jQuery, Bootstrap, HTML5/CSS3

Observability & Monitoring: ELK Stack (Elasticsearch, Logstash, Kibana), AWS CloudWatch, Spring Actuator

Tools & Platforms: Git, GitHub, Maven, Gradle, Jira, IntelliJ IDEA, Visual Studio, WebSphere, WebLogic, Apache Tomcat, Docker Compose

EXPERIENCE

Compunnel, Inc.

Princeton, NJ

Sep 2025 - Present

Senior Full Stack Java Developer

- Designed, developed, and enhanced Java/J2EE enterprise modules (EAR/WAR) using Spring MVC/Boot, Struts2, Servlets, EJBs, Hibernate/JPA, JDBC, and Oracle 19c across Unix/Solaris/Windows environments, delivering scalable, secure, and maintainable application functionality
- Built and consumed REST and SOAP-based integrations, including XSD-based validation, XML parsing, security headers, and custom Spring-based load balancing and service discovery
- Modernized legacy components by designing and building Spring Boot microservices, improving system reliability, reducing latency, and enabling dynamic endpoint routing while ensuring maintainability aligned with Agile SDLC practices
- Developed responsive UI features using Angular/TypeScript, JavaScript, jQuery, Bootstrap, HTML5/CSS3, ensuring seamless JSON/XML data exchange with backend APIs and collaborating with UI/UX teams to confirm design feasibility
- Deployed, monitored, and optimized Java applications on WebSphere, WebLogic, Apache Tomcat, and Linux environments, resolving issues related to SSL certificates, JVM tuning, thread/heap bottlenecks, deployments, and PL/SQL performance to ensure stable production operations

East Tennessee State University

Johnson City, TN

Aug 2023 - May 2025

Graduate Teaching Assistant

- Instructed and facilitated lab sessions for 7 sections covering IT fundamentals and web development, supporting 50–100 students per class
- Assisted in redesigning curriculum content by incorporating AI, digital citizenship, and modern development practices, resulting in a measurable 42% improvement in student performance
- Supported students through one-on-one tutoring, office hours, and technical coaching, enabling them to effectively grasp IT fundamentals, programming principles, and web technologies
- Mentored and trained new teaching assistants on course delivery, grading standards, lab procedures, and student engagement best practices

Cedar Gate Technologies

Kathmandu, Nepal

Dec 2020 - July 2022

Software Engineer

- Designed, developed, and deployed scalable Java/Spring applications using Java, Spring Framework, Spring MVC, Spring Security, and Hibernate/JPA, supporting distributed enterprise applications and modular plugin architectures
- Implemented RESTful APIs with secured integrations using Spring Security, SAML, and JWT, following enterprise-grade authentication and authorization patterns

- Built asynchronous, event-driven workflows using AWS SQS with application-level message validation, automated retries, dead-letter queues (DLQs), and resilient processing patterns to support high-volume enterprise operations
- Improved system performance by 35% through intelligent Redis (AWS ElastiCache) caching, SQL tuning, and Spring Data JPA optimization, reducing API latency and improving throughput
- Deployed and managed services on AWS EC2 and Apache Tomcat, and automated CI/CD pipelines for reliable and repeatable deployments
- Monitored application health and performance using Spring Actuator, AWS CloudWatch, and ELK stack (Elasticsearch, Logstash, Kibana), enabling proactive diagnostics and issue resolution
- Collaborated with design teams, DBA, QA, and product teams in Agile ceremonies, facilitating smooth overall integration and contributing to a 20% improvement in sprint delivery velocity

Associate Software Engineer

June 2019 - Nov 2020

- Developed a centralized Java/Spring authentication microservice supporting 12 internal applications and 400K+ users, integrating Apereo CAS for secure Single Sign-On (SSO)
- Built automated reporting pipelines using Cron jobs and Amazon SQS, increasing analytics accuracy by 40% and streamlining operational insights
- Set up observability using AWS CloudWatch and ELK stack, reducing mean time to resolution (MTTR) from 6 hours to 30 minutes through proactive alerting and log aggregation
- Boosted backend performance by 50% by optimizing SQL stored procedures, tuning queries, and refactoring service logic to reduce response times by 30%
- Participated in Agile SDLC processes, writing clean, testable Java code, contributing to design discussions, and delivering production-ready features aligned with enterprise development standards

Leapfrog Technology Inc.

Kathmandu, Nepal

Mar 2019 - May 2019

Software Engineering Intern

- Developed responsive web pages using HTML, CSS, and JavaScript, ensuring smooth user interactions and cross-browser compatibility
- Increased frontend performance by 30% by implementing lazy loading, reducing initial load time, and improving overall user experience
- Contributed to organizing CSS/JS assets and refining component-level logic, improving modularity and maintainability across frontend pages

Agile Solutions Pvt. Ltd.

Kathmandu, Nepal

Nov 2018 - Feb 2019

Software Engineering Trainee

- Developed an ERP system using Microsoft Dynamics NAV, improving efficiency and automating business processes
- Contributed to the migration of legacy ERP data, ensuring 99.9% data integrity and a seamless transition with minimal downtime
- Identified and resolved inconsistencies in NAV form configurations and data mappings, ensuring accurate behavior of ERP modules during testing

PROJECTS

Hotel Rating System | [GitHub Link](#) | *Spring Boot, JWT, REST API, REST Template, Kafka, Feign, Microservice, MySQL, MongoDB*

- Developed a microservices-based hotel rating system with 3 services communicating via REST APIs & API Gateway for unified service
- Integrated Apache Kafka for asynchronous microservices communication, ensuring scalability and real-time data streaming
- Implemented dynamic service discovery using Eureka Server and a centralized configuration server via GitHub
- Added authentication using a JWT-based microservice, securing API access through the API Gateway

RMIPSS System | [GitHub Link](#) | *ASP .NET MVC, .NET Core, Entity Framework, SQL Server, SMTP2go, Bootstrap, Toastr.js, Docker*

- Developed a web application for the Republic of Marshall Islands Public School System to digitize IEP processes and reduce manual effort
- Built dynamic IEP forms with real-time validation, user-friendly error messages, & seamless data entry using ASP.NET MVC & Bootstrap
- Implemented authentication with .NET Identity, email notifications via SMTP2go API, & improved usability with Toastr.js
- Deployed application on [Oracle Cloud VM](#) using Docker and Docker Compose for scalable and containerized deployment

University Recommendation System | [GitHub Link](#) | *Python, Pandas, NumPy, Scikit-learn, Matplotlib*

- Developed an ML-based university recommendation system to assist international students in selecting US universities
- Trained models (Logistic Regression, Decision Tree, Random Forest, SVM, KNN, Naive Bayes), achieving 84% precision (Decision Tree) & 89.53% recall (Naive Bayes) in admission predictions
- Analyzed admission trends based on factors like GRE scores, CGPA, and research experience to provide data-driven insights

EDUCATION

East Tennessee State University

Master's in Computer Science (Software Engineering)

GPA: 4.0

Coursework: Software Engineering, Software Design, Software Verification & Validation, Software Production, Software Project Management

Johnson City, TN

Aug 2023 - May 2025

Tribhuvan University

Bachelor's in Computer Engineering

Grade: Distinction

Coursework: Computer Programming, Object Oriented Programming, Data Structure & Algorithm, Computer Organization & Architecture, Database Management System, Distributed System, Data Mining, Big Data Technologies, Object Oriented Analysis & Design

Kathmandu, Nepal

Nov 2014 - Oct 2018