

# Sunil Poudel

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## Summary

Experienced Java Backend Developer and Technical Lead with over 6 years of experience in the FinTech sector. Proficient in building scalable enterprise solutions such as Payment Aggregator Systems (similar to PayPal Bill Pay), Agency Banking platforms, and SMS VAS Servers (comparable to Twilio Messaging). Specialized in data-intensive applications using Java, Spring Boot, Hibernate, and REST APIs, with hands-on expertise in cloud deployments and Agile methodologies. Additional experience with front-end technologies like Angular and DevOps tools such as Docker, Kubernetes, and Jenkins. Strong understanding of design patterns, object-oriented programming, concurrency, and system architecture to develop efficient and maintainable solutions. Effective communicator, collaborating with cross-functional teams across various company verticals.

## Technical Skills

**Programming Languages:** Java, JavaScript, SQL, TypeScript, HTML, CSS

**Frameworks:** Spring, Spring MVC, Spring Boot, Spring Cloud, Java EE, Hibernate, Junit, Angular (basic), EJB, React (Basic)

**Developer Tools:** Git, Docker, Maven, IntelliJ, Postman, Jira, Linux

**Web Services:** RESTful Web Services (REST), SOAP, JSON, XML

**Web & Application Servers:** Apache, Tomcat, GlassFish, WildFly

**SDLC & Agile Methodologies:** Agile, Scrum, Kanban

**Cloud and DevOps:** AWS (S3, EC2, RDS, Lambda, IAM, SNS, SQS, cloudwatch), Jenkins, Docker, Kubernetes, Rancher, Harbor, Cloud Services

**Data Processing & Machine Learning:** Kafka, Apache Spark, Machine Learning

**Backend Development:** Microservices, Distributed System, Concurrency, Multithreading

**Database Technologies:** RDBMS, NoSQL, Redis, Elasticsearch, MySQL, PostgreSQL

**Other Technologies:** RxJS, Cognito, Python, Node.js, Object-Oriented Programming (OOP), SOLID, Design Patterns, API Design & Development, Servlets, JSP, JDBC, RabbitMQ, Transaction Management, Thread Management, Event-driven programming, Concurrent programming, Logging mechanisms (Log4J), Distributed systems, Version Control Systems, Containerization, Linux environments, Bash, DynamoDB, ALB, NLB

## Experience

### Senior Software Engineer

May 2022 – March 2024

*F1soft International Pvt. Ltd*

*Lalitpur, Nepal*

Spring Boot, Java EE, Hibernate, JavaScript, MySQL, Redis, Docker, Kubernetes, Jenkins, Git

- **Optimized** transaction processing by implementing multithreading, batch processing, caching, asynchronous processing, connection pool enhancements, query optimization, and indexing, increasing daily transactions by 26% in 6 months, scaling from 400K to over 800K.
- **Led** the migration of a B2B payment aggregator (similar to PayPal Bill Pay) to an Angular-Spring Boot SPA, improving user experience by lightweight response, pagination, caching, error handling, async processing using threads, and reducing load times to under 1 second.
- **Developed and maintained** a B2B payment API using Java EE 7, integrating with Settlement and Reconciliation engines on Spring Boot.
- **Improved** the SMS VAS system (similar to Twilio Messaging) to handle more daily requests, growing from under 500K to 1 million in 4 months, while making the service more reliable.
- **Implemented** Ehcache and Redis caching to optimize performance, while enhancing detailed reporting and maintaining 99.9% uptime.
- **Simplified** future development and maintenance by introducing modular architecture, Standardized Vendor API Integration and streamlined workflows with a CI/CD pipeline.
- **Implemented** security enhancements by leveraging Spring Security, including PKI, MFA.
- **Integrated** multiple vendor APIs into the Topup Backend API Server, streamlining payment processing.
- **Upgraded** settlement and reconciliation modules from Java 8 to Java 17 and MySQL 5 to 8, enabling feature expansion.
- **Designed** backend and frontend modules for an SMS VAS server which connects telecom servers to third parties using Spring Boot and Angular.
- **Automated** Kubernetes deployments via Jenkins and Rancher, cutting deployment time to under 10 minutes.

- **Conducted** code reviews to enforce coding standards and collaborated with cross-functional teams to resolve critical issues.

<b>Software engineer</b>	March. 2019 – Feb. 2022
<i>ITECH ONE O ONE Pvt. Ltd.</i>	<i>Kathmandu, Nepal</i>
Spring Boot, Java EE, PostgreSQL, AWS (S3, EC2, Route 53, IAM)	
<ul style="list-style-type: none"> <li>• <b>Developed</b> scalable REST APIs for a Merchant Payment Gateway using <b>Java 8, Java EE 8, and PostgreSQL</b>.</li> <li>• Built secure REST APIs For an <b>Online Appointment Platform</b> using <b>JAX-RS</b> and implemented authentication using <b>JWT</b> and <b>SSO</b> with Keycloak(Similar to Amazon Cognito), significantly enhancing system security.</li> <li>• <b>Developed</b> a mobile KYC management system with digital cards, cutting user onboarding time by 80%</li> <li>• <b>Integrated PayPal and TWEC PG payment gateways</b> for seamless transactions</li> <li>• Created agent-based mobile banking solutions, boosting agent efficiency by 50% and expanding financial access.</li> <li>• Contributed to Agile sprints, ensuring timely delivery and reducing project delays.</li> </ul>	
<b>Data Engineer Trainee</b>	Oct 2017 – Nov 2018
<i>Neparica Technology Pvt. Ltd.</i>	<i>Kathmandu, Nepal</i>
Java, Python, Apache Spark, Hadoop, Solr, Redis	
<ul style="list-style-type: none"> <li>• Developed <b>Artificial Intelligence (AI) and Machine Learning models</b> for fraud detection using <b>Apache Spark</b>, achieving 90% accuracy.</li> <li>• Processed and analyzed large-scale credit card fraud datasets with <b>Hadoop</b> and <b>Apache Solr</b> for efficient indexing.</li> <li>• Designed and optimized scalable data storage with NoSQL technologies like <b>MongoDB</b> and <b>Redis</b>, reducing retrieval time by 30%</li> </ul>	

## Education

<b>Maharishi International University (2024 - 2026),</b>	
IOWA USA	<i>Master of Science, Computer Science</i>
<b>Tribhuvan University,</b>	
Kathmandu, Nepal	<i>Bachelor of Engineering in Electronics and Communication Engineering</i>

**Location:** *Houston, Texas*

## Projects

### SMART Wallet

*Java, Spring Boot, Kafka, resilience4j, Microservices, MySQL, Docker, JavaScript*

- Designed and implemented an even driven scalable Smart wallet system using a microservices architecture for modularity and maintainability.
- Integrated **Kafka** for **event-driven asynchronous** communication, improving system responsiveness and reliability.
- Developed robust data models and queries in MySQL to ensure efficient storage and retrieval of wallet-related transactions