

SUNIL POUDEL

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JAVA SOFTWARE ENGINEER

Full Stack Java Developer with 6+ years of experience building enterprise applications for fintech and health-tech sectors. Developed scalable solutions, including payment aggregator solution, SMS VAS Server, online doctor appointment system, POS based Agency Banking utilizing Java stack, MySQL, PostgreSQL, and Docker following Agile methodologies. Proficient in full-stack technologies including Java, Spring Framework, Hibernate, Design Patterns, OOPS, SDLC, Concurrency, Data Structures, SQL, and Cloud Deployment.

- Object-Oriented Programming (OOP) • SOLID • Design Patterns • SDLC • Database Design & Development
- CI/CD • Containerization • Cloud Computing • Version Control Systems • API Design & Development

Languages: Java, JavaScript, SQL, Python **Databases:** MySQL, PostgreSQL, Redis

Web: Typescript, HTML, CSS **Web Services:** REST, SOAP, JSON, XML

Web/App Servers: Apache, Tomcat, Glassfish, Wildfly

Frameworks: Angular, Spring MVC, Spring boot, Hibernate, Java EE, EJB, JUnit

Design Patterns: Factory, Singleton, Adapter, Command, Builder **SDLC:** Agile, Scrum, Kanban

Tools: Maven, Git, Docker, Jenkins, Rancher, AWS, Postman, Keycloak, Apache Solr, IntelliJ

Platforms: Linux, Windows, MacOS **Big Data:** Hadoop, Spark

PROFESSIONAL EXPERIENCE

CAREER NOTE: Completed on-campus studies and currently taking distance education courses to complete a **master's degree in computer science** (Available for full-time, W-2 employment).

F1SOFT INTERNATIONAL PVT. LTD., Kathmandu, Nepal • 05/2022 – 03/2024

A fintech company.

Senior Software Engineer

Developed Business to Business (B2B) Payment Aggregator and SMS VAS modules, upgraded legacy systems, optimized transactions, implemented secure APIs, integrated payment gateways, and automated Kubernetes deployments.

- Migrated a legacy application to an Angular-based Single Page Application (SPA), improving user experience and reducing interface load time less than a second.
- Developed and integrated multiple vendor APIs into the Topup Backend API Server using Java and Java EE, enabling seamless payment processing.
- Upgraded the backend of settlement and reconciliation modules in the Payment Aggregator System from Java 8 to Java 17 and MySQL 5 to 8, facilitating the addition of new features.
- Enhanced security for B2B Payment Aggregator Backend System by implementing PKI, Multi-Factor Authentication, increasing reliability and ease of use.
- Automated application deployment to a Kubernetes cluster using a Jenkins pipeline with Rancher, reducing deployment time to under 10 minutes.
- Optimized B2B Payment API Backend Server performance using Java's ExecutorService for multithreaded processing, enabling it to handle over 1 million daily transactions efficiently.

Technologies Used: Java, Spring, Hibernate, Angular, MySQL, Redis, Jenkins, Rancher, Kubernetes, Docker.

ITECH ONE O ONE PVT. LTD., Kathmandu, Nepal • 03/2019 – 04/2022

A fintech and healthcare company.

Software Engineer

Developed and maintained features within FinTech applications.

- Designed and developed scalable REST APIs For Merchant Payment Gateway System using Java 8, Java EE 8, and PostgreSQL, customized to specific business requirements.
- Built secure REST APIs for Online Appointment Platform with JWT authentication and SSO using Keycloak.
- Developed a mobile-based KYC management system with integrated digital cards, reduced user onboarding time by 80%, and implemented payment gateways like PayPal and TWEC PG.

- Created agent-based mobile banking solutions, increasing agent efficiency by more than 50% and supporting financial activities in remote areas.
- Actively contributed to Agile sprints, meeting all goals, reducing project delays, and improving overall team efficiency.

Technologies Used: *Java, spring, Spring Boot, PostgreSQL, AngularJS, Jenkins, Postman, Typescript, AWS, Keycloak*

NEPARICA TECHNOLOGY PVT. LTD, Kathmandu, Nepal • 06/2016 – 05/2017

A global IT company.

Data Engineer Trainee

Researched and Implemented Advanced Big Data Technologies for AI and Machine Learning Solutions

- Developed AI and machine learning models for fraud detection using Apache Spark with 90% accuracy.
- Processed and analyzed large-scale credit card fraud datasets using Hadoop and Apache Solr for advanced indexing.
- Designed & optimized scalable data storage solutions with MongoDB & Redis, reducing data retrieval time by 30%.

Technologies Used: *Java, Apache Spark, Hadoop, Solr, Python, Redis, MongoDB*

ACADEMIC PROJECTS

Maharishi International University (2024)

- **Framework for Banking System:** Successfully designed and implemented a framework using Factory, Singleton, Adapter, Command design patterns. Enriched the banking system with credit card system, account management, interest calculations, transaction notifications, and reporting capabilities. Utilized Java.
 - **Credit card Fraud transaction Detector:** Designed and implemented fraud detection using supervised machine learning algorithms on real-world Kaggle credit card transaction data. Utilized SMOTE, Decision Tree, Random Forest, ANN, Logistic Regression, and AdaBoost. Utilized Python, Panda, Scikit learn, NumPy.
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PERSONAL PROJECTS

Digital Wallet System (2024): Designed a decoupled, scalable system with microservices for user management, payments, notifications, and reporting, ensuring independent service scalability and maintainability. Utilized Java, Spring Boot, Maven, Microservice, Kafka.

EDUCATION

Master of Science in Computer Science

(In progress via distance education; expected completion 12/2026), Maharishi International University, Fairfield, Iowa

Key Courses: Algorithm, Advanced Design Pattern, Machine Learning, Cloud Computing, Enterprise Applications

Bachelor of Engineering in Electronics and Communications Engineering

Institute of Engineering, Tribhuvan University, Kathmandu, Nepal (11/2015)