

SUDIP SUBEDI

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Summary

Software Engineer and Nepal Engineering Council-registered Computer Engineer with hands-on experience developing financial technology and remittance systems. Experienced in full-stack development, backend APIs, microservices, database-driven business logic, and system integrations using React.js, Node.js, MS SQL Server, Kafka, Redis, and Docker. Skilled in transactional workflows, REST/SOAP integrations, stored procedure optimization, asynchronous processing, and production troubleshooting, with additional experience in AI and data engineering.

Education

Kathmandu University
Bachelor of Engineering in Computer Engineering

Dhulikhel, Kavre
Feb 2021 – Aug 2025

Relevant Coursework: Data Structures & Algorithms, Database Management Systems, Cloud Computing, Artificial Intelligence, Operating Systems, Software Engineering, System Analysis & Design, Computer Networks, C, C++

SOS Hermann Gmeiner School
+2 Science

Bharatpur, Chitwan
2019 – 2021

Skills

Languages: JavaScript, SQL, Python, C, C++

Frontend: React.js, Redux Toolkit, Ant Design

Backend & APIs: Node.js, Express.js, REST APIs, SOAP APIs, Flask, Microservices

Databases & Data: SQL Server, PostgreSQL, MongoDB, Snowflake, Stored Procedures, ETL, Pandas, NumPy

Messaging & Infrastructure: Kafka, Redis, Docker, NGINX, Jenkins, Linux

AI & Computer Vision: LLMs, OpenCV, TensorFlow, Keras, Stable Diffusion, Sentence Embeddings

Tools: Git, GitHub, Bitbucket, Jira, Postman

Experience

City Express Money Transfer
Associate Software Engineer

Kathmandu, Nepal
Dec 2025 – Present

- Contribute to the design and development of large-scale remittance platforms, working across backend services, APIs, database workflows, and transaction-processing components used in core financial operations.
- Design and optimize complex MS SQL Server stored procedures, queries, and transactional business logic for remittance processing, customer operations, agent management, reporting, and related financial workflows.
- Develop and maintain REST and SOAP-based integrations for internal systems and external partners, including request/response transformation, validation, error handling, authentication, and API logging.
- Work with microservice-based applications using Node.js, Kafka, Redis, Docker, and related infrastructure to support asynchronous processing, inter-service communication, and scalable API workflows.
- Implement Kafka-based processing for API request/response logging and evaluate message-based and batch-based consumption strategies for high-volume application logs.
- Develop and maintain frontend modules using React.js, Redux Toolkit, and Ant Design, integrating backend APIs with reusable components and application state-management structures.
- Investigate and resolve application, database, integration, and infrastructure issues across distributed services, including transaction failures, SQL deadlocks, API payload inconsistencies, caching issues, and service connectivity problems.
- Collaborate on system design and technical improvements for financial applications with emphasis on maintainability, reliability, security, and scalable transaction processing.

CityTech
Software Engineer Trainee

Kathmandu, Nepal
Apr 2025 – Dec 2025

Joined as Software Engineer Intern (Apr – Jun 2025); transitioned to Software Engineer Trainee (Jun – Dec 2025).

- Worked on City Express Japan and Nepal remittance platforms across frontend, backend, and database layers, contributing to production-oriented financial applications and operational workflows.
- Developed and maintained React.js interfaces using Redux Toolkit and Ant Design, including API integrations, reusable components, dynamic forms, and application state management.
- Contributed to Node.js backend functionality and API integrations supporting remittance, agent management, reporting, and administrative workflows.
- Wrote and modified MS SQL Server stored procedures and queries for reporting, filtering, transaction processing,

and application data retrieval.

- Debugged end-to-end application flows involving frontend state, API payloads, backend services, and database responses using Git, Bitbucket, Jira, and Postman.

Fellowship.ai
Data Science Fellow

San Francisco (Remote)
Jan 2025 – Mar 2025

- Developed LLM-powered web agents using Python, BeautifulSoup, Scrapy, and UI-TARS to automate web navigation, data extraction, and user-interface interaction.
- Built data pipelines for cleaning, structuring, storing, and analyzing extracted web data using Python and SQL-based systems.
- Applied sentence embeddings and semantic retrieval techniques to improve information extraction, matching, and contextual retrieval accuracy.
- Researched and implemented automated extraction of financial information including mortgage rates, loan terms, and property details from banking websites to support mortgage comparison workflows.

Projects

- **Stock Market Prediction (NEPSE):** Developed an LSTM-based stock market prediction system using TensorFlow/Keras and historical financial data collected from web sources using BeautifulSoup. Performed preprocessing and analysis using Pandas and NumPy to identify patterns in NEPSE market data.
- **PDF Answer Retriever:** Built an NLP-based document question-answering system that extracts and indexes PDF content for contextual information retrieval. Used Python, OCR, PyPDF2, and semantic search techniques to process documents and retrieve relevant answers.
- **Virtual Trial Room:** Developed an AI-powered virtual try-on prototype using Stable Diffusion, OpenCV, and CVZone, combining pose detection and image generation techniques for garment visualization.
- **AttHire:** Built a full-stack clothing rental platform using React.js, Node.js, and MongoDB with user authentication, inventory management, dynamic listings, and separate client, server, and administrative modules.

Participation & Achievements

- **IT Meet 2024 AI Competition – Winner:** Designed and implemented an AI-driven real-time face tracking system that dynamically prioritized head movement based on detected users, using computer vision and Raspberry Pi.
- **KU HackFest 2024 – Best UI Design:** Developed *SapatiSewa*, a digital microloan service concept, with the team receiving the Best UI Design award.
- **KU HackFest 2023 – Best Use of Redis:** Developed *SmartKagaj*, a mobile application designed to simplify digital contract signing and authentication, receiving the Best Use of Redis award.

Certifications & Training

- **Associate Data Analyst, DataCamp:** Data analysis, visualization, SQL, and Python workflows for extracting and communicating insights.
- **AWS Cloud Practitioner (CLF_C02), KodeKloud:** AWS cloud fundamentals, core services, architecture, and security principles.
- **DevOps Pre-Requisite Course, KodeKloud:** DevOps fundamentals including CI/CD, Docker, Git, and deployment workflows.
- **Linux Basic Course, KodeKloud:** Linux command-line operations, filesystem management, and basic system administration.
- **AI Associate, Salesforce:** AI fundamentals and AI-enabled CRM concepts using Salesforce Einstein.
- **PCAP – Python Certification, KodeKloud:** Python programming, object-oriented programming, and algorithmic problem-solving.
- **Python OpenCV, Simplilearn:** Image processing and computer vision using Python and OpenCV.
- **Agile & Project Management Diploma, Udemy:** Scrum, Kanban, Agile methodologies, and project management fundamentals.

Leadership / Extracurricular

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| • Geetanagar Junior Jaycees | President, 2022 | • Idea Studio Nepal | College Ambassador, KU |
| • IT MEET Mock Placement | Event Manager | • Hult Prize at KU | Organizing Committee, 2022 |