

Saurav Lal Karn

Senior Software Engineer with 9+ years of experience in full-stack, blockchain, and AI/ML solutions. Proven track record in delivering scalable products, integrating cutting-edge AI models, and leading end-to-end software development for fintech, SaaS, and enterprise projects.

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EXPERIENCE

Whitehat Engineering, Sinamangal — Senior Software Engineer

Sep 2021 - PRESENT

- Developed and maintained web applications and blockchain solutions tailored to client requirements.
- Integrated cutting-edge large language models (LLMs) for AI-driven client projects.
- Led OpenAI assistant implementations to meet client-specific needs.

Ebpearls Pvt Ltd, Kuponhole — Web Developer

Apr 2017 - Aug 2021

- Spearheaded web application and API development projects to enhance user experience.
- Integrated third-party APIs to enhance application functionality.
- Designed and managed databases for seamless application functionality.

SmartMobe Solutions Pvt Ltd, Tripureshwor — Associate Web Developer

Apr 2016 - Apr 2017

- Developed web applications and services.
- Managed database systems to support project objectives.

EDUCATION

IOE, Pulchowk — Masters in Computer Systems and Knowledge Engineering

2019

Masters with thesis focused in Machine Learning and Artificial Intelligence

SKILLS

Core Programming: Golang, Solidity, PHP, Python

AI/ML Frameworks: Keras

AI Techniques: Natural Language Processing (NLP), Computer Vision

Frontend Development: ReactJS, NextJS

Backend Development: NodeJS, NestJS, Laravel

Database Management: MySQL, MongoDB, PostgreSQL

PUBLICATIONS

Rapid Earthquake Assessment from Satellite Imagery Using RPN and Yolo v3, Published in [Springer], 2021, [Rapid Earthquake Assessment from Satellite Imagery Using RPN and Yolo v3 | SpringerLink](#)

IOE, Pulchowk — *Bachelor in Computer Engineering*

2016

Bachelor with main project focused on NLP with Tweet Analysis

PROJECTS

Document Processing with LLM

Implemented an LLM-powered assistant for document processing, including parsing and presenting documents for user-friendly viewing.

Blockchain-Based Voting System

Integrated a secure voting system with blockchain technology, enabling seamless functionality with MetaMask. Customized MetaMask for compatibility with the system.

FlipPay — *Payment Plans Portal*

Led a team to engineer merchant, admin, and customer portals with payment plans specific to merchants, enabling users to pay as per plan. Built APIs using Node.js and the frontend using Vue.js.

Dwell — *Tenancy Management System*

Led a team to craft APIs and a backend portal for landlord, tenant, and property management. Integrated Assembly Payment Gateway and used Laravel for development with MongoDB as the database.

Farm Service Manager — *Farm Operations Management*

Built APIs and a backend portal for farm owner management, operators, and equipment. Integrated Braintree Payment Gateway and used Laravel and MySQL for the system.

FoodMario — *Vendor and Customer Food Platform*

Developed APIs for vendor and customer portals, including food preferences, vendor proximity, and type-based filtering. Worked on API optimization and backend portal integration.