

Suman Thapa

Full Stack Software Engineer | AI Engineer

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PROFESSIONAL SUMMARY

Full Stack Developer with 8+ years of experience building and architecting scalable web and mobile applications. Expertise in React.js, Vue.js, Laravel, Django, PHP, modern JavaScript frameworks, REST & GraphQL APIs, and DevOps. Successfully delivered AI-driven features, dynamic dashboards, CRM/ERP systems, and cross-platform solutions.

TECHNICAL SKILLS

Programming Languages	PHP, Javascript, Python, C/C++, Go
Backend Frameworks	Laravel, Django, Node.js, Adonis JS, Flask, Symphony
Frontend Frameworks and Libraries	Nuxt/Vue.js, Next/React.js/TanStack, React Native, Three JS, jQuery, IONIC Angular, Apollo GraphQL
UI/UX	Figma, Photoshop, Blender
Web Services	Rest, GraphQL, SOAP
Databases	MySQL, PostgreSQL, SQLite
DevOps	Docker, GitHub Actions, Linux, CI/CD
Tools	VS Code, Cursor, Ai Tools, Postman, excalidraw, Git, GitHub, Sublime Text 3, Microsoft Office Tools
Software Testing	PHPUnit, Postman Tests, Cypress, Jest, Vitest, React Testing Library, Laravel Dusk, Selenium

PROFESSIONAL EXPERIENCE

Global English Campus (GEC)

Dec 2021

Full Stack Developer (Web, Mobile, AI Integration)

Remote

- Developed and integrated AI-powered features, including Retrieval-Augmented Generation (RAG), into web and mobile platforms
- Automated workflows and enhanced user experience using custom AI models, RAG pipelines, and third-party APIs
- UI & WEB Development using Laravel & Vue CLI
- Engineered AI-driven solutions by integrating OpenRouter and OpenAI APIs
- Integrated AI-driven Images Generation API for various system uses
- Designed and developed workspace management system and time tracking software
- Implemented advanced reporting, role-based access control, and mobile app with React Native
- Managed app deployment for iOS and Android

Stack: Laravel API · Vue.js · Nuxt JS · React · React Native · RAG · AI Integrations · Python · Django Framework · CI/CI

Nepse Alpha Pvt. Ltd.

September 2019

Software Engineer and Project Manager

Lazimpat, KTM

- Developed backend logic and frontend UI for stock market platforms
- Implemented database using PostgreSQL, optimized queries, integrated TradingView charts
- Implemented ML algorithms for stock analysis and built mobile app with React Native
- Oversaw multiple concurrent projects from conception to release, coordinating teams, managing timelines, and delivering features on schedule
- Communicated with stakeholders to gather requirements, define project scope, and prioritize deliverables for engineering teams
- Utilized agile methodologies (Scrum, Kanban) and modern project management tools to ensure transparency and adaptability throughout product development lifecycle
- Architected and managed scalable infrastructures leveraging Cloudflare for CDN, DDoS protection, and load balancing to ensure high availability and global low-latency delivery
- Optimized server and API performance for high-traffic conditions, achieving substantial improvements in page load speed and resource utilization
- Implemented advanced caching strategies and edge rules with Cloudflare Workers to reduce server load and accelerate content delivery
- Monitored and fine-tuned traffic patterns, proactively resolving bottlenecks using observability tools and real-user metrics

- Led rollout and migration strategies to modern cloud platforms, focusing on cost-efficient scalability and maintainability
- Designed robust deployment pipelines for zero-downtime releases and systematic rollback capabilities under peak load
- Ensured platform security and compliance through WAF configurations, SSL/TLS provisioning, and incident response best practices

Stack: *Vue.js · Laravel API · Inertia.js · PostgreSQL · React/React Native · Python · Trading View · PineJs · Material UI · Element UI · Vuetify · ML · Cloudfare*

GadgetByte Nepal

March 2026

Full Stack Developer

Baneshwor, KTM

- Created entire backend logic and frontend UI
- Developed web applications providing news and various tools for the Nepal stock market
- Designed and implemented database structures based on requirements using PostgreSQL
- Integrated and customized TradingView charts for web portals
- Developed and applied various machine learning algorithms for financial data analysis and stock price forecasting, ensuring robust validation and reproducibility
- Utilized proper software management practices, including version control, code reviews, and project documentation
- Implemented and managed DevOps processes for CI/CD pipelines, automated deployments, and environment management
- Configured and optimized website performance and security using Cloudflare and related CDN tools
- Optimized complex database queries for speed and efficiency
- Built and maintained web scraping solutions for data collection
- Learned and developed a mobile app using React Native

Stack: *Laravel · React.js · Next JS · MySQL · Tailwind · NextJs*

Gamenic Nalamiz Tech Pvt. Ltd

April 2020 - Dec 2021

Laravel & Vue/React Js Developer

Remote

- Agile development with distributed international team and GitHub
- Developed/maintained real-time chat systems, AWS log analysis, Docker environments, and unit testing

Stack: *React · Redux · Typescript · MUI · Laravel Voyager · Docker*

Mero Network Pvt. Ltd.

April 2018 - April 2020

Laravel & React Developer

Lazimpat, KTM

- Worked on CRM, ERP, Travel and Inventory Management Systems
- Implemented SOAP APIs for flight booking, built REST APIs for mobile, and upgraded legacy Laravel

Stack: *Laravel · React · jQuery · Vue.js · Axios · AJAX · MySQL · SOAP API*

KEY PROJECTS

RAG Pipe

End-to-end Retrieval-Augmented Generation (RAG) pipeline integrating text chunking, vector database (Pinecone), and OpenAI/LLM-powered question answering for domain documents.

- Document splitting and embedding
- Semantic search & document retrieval
- LLM-powered answer generation
- Streaming/support for large files

Stack: *Python · LangChain · FastAPI · Pinecone · OpenAI API*

AI Chatbot

Conversational web chatbot leveraging retrieval and generative AI (RAG) to answer user questions by referencing integrated documentation and knowledge base.

- Streaming chat interface
- Supports referencing company docs
- Contextual follow-up questions
- Theming & user identity

Stack: *React.js · Next.js · LangChain · OpenAI API*

Online Discussion Forum Project (Academic)

BSc. CSIT graduate project built on Django, employing various machine learning algorithms (Edit Distance, Naive Bayes Classifier & TF IDF) for text processing.

Stack: *Python3 · Django Framework · Jinja 2 · HTML/CSS/Javascript/jQuery · SqlLite*

Custom Dashboard Builder

Drag-and-drop dashboard system with dynamic creation and management of widgets.

- Dynamic widget positioning
- Resizable components
- Layout saving to database
- Editable/locked mode

Stack: *React.js · TypeScript · Node.js · Grid Layout*

Stock Market Analytics Platform

Live stock tracking and financial analytics system with sophisticated charting and news scraping tools.

- Live market updates
- Advanced filtering
- Technical indicators
- TradingView integration

Stack: *Vue.js · Highcharts · Laravel · MySQL*

OPEN SOURCE PROJECTS

Stock Market Rag

github.com/suman98/rag_model

Retrieval-Augmented Generation experiments applied to stock market data.

VS Code Project Manager

github.com/suman98/vscode-easy-project-manager

VS Code extension for quickly switching between and managing projects.

JS Injector

github.com/suman98/chrome-extension-js-injector

Chrome extension for injecting custom JavaScript into any web page.

vyro.js

github.com/suman98/vyro.js

Zero-config Vite plugin for multi-page apps. Drop HTML, React (.jsx/.tsx), or Vue (.vue) files into src/pages/ — each becomes its own standalone page. No route table, no manual entry list. The filesystem is the routing table.

EDUCATION

Master of Data Science and Computational Intelligence

2023-2025

Coventry University

Bachelors of Science in Computer Science & Information Technology (BSc. CSIT)

2016 - 2020

Tribhuvan University at Ambition college

10+2 in Science faculty

HSEB Board, Nepal at Southwestern State College

S.L.C

Nepal Government at Academy Boarding High School

KEY ACHIEVEMENTS

- 8+ years of IT industry experience in Web/Mobile applications
- Engineered AI-driven solutions by integrating OpenRouter and OpenAI APIs into web applications
- Successfully architected and implemented CRM, ERP, and Billing systems for hospitality sector
- Developed and integrated TradingView charts API within Laravel-based financial apps
- Published multiple production-ready applications

INTERESTS

System Design · Education & Financial Technology · AI & LLMs · Open Source Contribution