

AASTHA PAUDEL

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PROFESSIONAL SUMMARY

Computer Engineer with 2+ years of experience in software development, enterprise application implementation, and AI/ML. Skilled in analyzing business requirements, improving workflows, documenting processes, and developing scalable web applications. Strong analytical, communication, and problem-solving skills with a focus on delivering quality software.

TECHNICAL AND SOFT SKILLS

Languages: PHP (OOP), JavaScript, Python

Backend: Laravel 9/10/11, Multi-Tenant SaaS, Blade, Eloquent ORM, RESTful APIs, MVC, Authentication & RBAC, Middleware, Dependency Injection

Frontend: HTML5, CSS3, Tailwind CSS, Vue.js, Quasar Framework, Nuxt.js, React.js (Basic)

Database: MySQL, PostgreSQL, Database Design, Migrations, Eloquent Relationships, Query Optimization

DevOps & Tools: Docker, Docker Compose, Nginx, PHP-FPM, Git, Composer, Vite, Linux

Laravel Ecosystem: Artisan, Queues, Jobs, Events, Notifications, Caching, Validation, Logging, Exception Handling, PHPUnit

Soft Skills: Problem Solving, Analytical Thinking, Team Collaboration, Leadership, Communication, Mentoring, Adaptability, Time Management

PROFESSIONAL EXPERIENCE

Trilokya Technology (*Fullstack Web Developer*)

May 2025 – June 2026

- Developed enterprise-grade **Asset Management, Audit & Compliance Systems** for asset tracking, audit workflows, and regulatory compliance.
- Built scalable frontend-backend architecture using **VueJS** integrated with **Laravel REST APIs**.
- Optimized **MySQL/PostgreSQL databases**, complex queries, joins, indexing for improved performance.
- Mentored juniors and interns, conducted **code reviews**, and facilitated team collaboration for streamlined workflows.

TukiSoft Pvt. Ltd (*Laravel Developer*)

Oct 2024 – May 2025

- Contributed to the development of a real-time **Job Portal and LMS** using **Laravel** and **MySQL**, focusing on scalable and maintainable backend architecture.
- Developed dynamic, role-based dashboards and implemented secure **authentication middleware**, **RBAC**, and robust **session management**.

Xdezo Technology (*Laravel Developer Intern*)

Jun 2024 – Nov 2024

- Built a **Certificate Management System** using **Laravel** and **MySQL**, enabling certificate generation, validation, admin control, and role-based access.
- Worked with **MVC architecture**, **RESTful APIs**, **Laravel Breeze authentication**, **Git version control**, and **agile development workflows**.

EDUCATION

Bachelor of Computer Engineering

Pokhara, Nepal

Western Region Campus, IOE, TU

- Developed backend applications including a **Python Flask**-based social platform.
- Developed multiple backend and problem-solving applications including a **C-based Account Management System**
- Developed an **LLM-based municipal query chatbot** using **Python**, **NLP**, and **REST APIs** for automated context-aware public service responses.

PROJECTS

EduPath – Learning Management System (LMS)

Designed and developed a scalable Learning Management System focused on structured digital education delivery. Implemented course-wise enrollment, Zoom-integrated live classes, secure PDF-based content distribution, and Bunney.net payment gateway integration. Built REST APIs with Firebase integration for mobile app support, enabling seamless authentication, notifications, and real-time updates.

GRC Management System – Governance, Risk & Compliance

Developed an enterprise-grade GRC platform incorporating Audit Management, Asset Management, and Compliance Tracking modules. Enabled risk assessment workflows, compliance monitoring dashboards, audit lifecycle tracking, and structured reporting to strengthen organizational governance and regulatory adherence.

Shangrila Bank – Audit Management System

Built a **Laravel**-based audit system to support banking audit operations, compliance monitoring, risk assessment, and regulatory reporting with RBAC and dashboards.

Elara

Built GRC platform using **Vue.js** and **Laravel** focused on audit management, risk assessment, asset governance, and regulatory compliance. Implemented audit lifecycle workflows, compliance tracking dashboards, risk management processes, RBAC, reporting, and evidence management to improve governance, regulatory adherence, and operational transparency.

TechAsset Management System – IT Asset & Service Management

Built a technology asset management solution with automated asset discovery (FQDN/IP-based), centralized asset inventory, lifecycle tracking, and integrated ticket management system. Designed to improve IT visibility, operational efficiency, and infrastructure governance through real-time asset monitoring and service request handling.

KaamSansar – Multi-Service Digital Platform

Engineered a comprehensive multi-service platform offering horoscope services, job search functionality, advertisement management, online gift coupon marketplace, visa document verification, forex exchange assistance, CV builder, and subscription-based services. Designed modular architecture with secure user authentication, payment workflows, and scalable database management to support diverse service operations.

NagarGPT – LLM-Based Multilingual Voice Chatbot

Developed a domain-adaptive AI chatbot with multilingual text voice I/O, contextual responses via LLM + RAG pipeline, and RESTful API deployment using Python, Flask, Hugging Face, gTTS, SpeechRecognition, and Ngrok.

MithoMitho – Food Social Platform

Developed a food-focused social networking platform using **Python Flask** with user-driven content sharing, community engagement features, authentication workflows, and dynamic social interactions. Designed backend APIs, database-driven functionalities, and scalable application workflows to support food discovery and social connectivity.

VOLUNTEERING & LEADERSHIP

Microsoft (<i>Microsoft Learn Student Ambassador</i>)	Nov 2023 – Nov 2025
Organized workshops and demo projects on Azure , promoting cloud technologies while demonstrating communication, teamwork, and mentorship skills.	
Code For Change (<i>Vice Project Lead</i>)	Jan 2023 – 2024
Led tech initiatives and training programs, collaborating with experts and student teams, showcasing leadership, coordination, problem-solving, and adaptability .	

ACHIEVEMENTS & CERTIFICATIONS

- **Mahatma Gandhi Scholar:** Recognized for academic excellence and leadership contributions in technical communities.