AAYUSH THAPA

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PROFESSIONAL SUMMARY

Computer Engineering graduate with strong foundations in software development, full-stack web technologies, and AI-driven solutions. Skilled in Python, React, Next.js, SQL, Kotlin (Jetpack Compose), Git, and GitHub. Developed multiple real-world projects including secure multi-tenant SaaS platforms, AI-powered applications, and cross-platform e-commerce systems. Recognised for analytical thinking, structured problem-solving, adaptability, and effective teamwork. Seeking opportunities as a Software Developer, Full-Stack Developer, or AI/ML Engineer in Nepal or remote global environments.

EDUCATION

Bachelor of Computer Engineering (BE Computer), Nepal Engineering Collage, Bhaktapur   2022 – Present
+2, Himalayan Whitehouse College, Tinkune,Kathmandu, GPA - 3.64   2021
S.E.E., Candid International Academy, Bhaktapur, GPA - 3.75   2019

SKILLS

Programming	Python, SQL, Kotlin
Web Development	React.js, Next.js, Full-Stack Development, REST APIs
Mobile Development	Android Development, Jetpack Compose
AI / Machine Learning	AI-Based System Design, Model Integration, Data Processing
Tools & Technologies	Git, GitHub, Firebase, Database Management, Postgress
Professional Skills	Analytical Thinking, Problem Solving, Teamwork, Adaptability, System Design, Structured Development Approach

PROJECTS

Votely – Secure Multi-Organization Voting Platform   2022
Next.js, TypeScript, Tailwind CSS, Prisma ORM, PostgreSQL, Clerk

- Developed a secure multi-tenant digital voting platform supporting independent organizations.

- Implemented one-person-one-vote system using token-based authentication and encrypted vote storage.

- Built real-time election result dashboard with live charts and participation tracking.

- Designed admin controls including election scheduling, countdown timers, and voter management.

RentFlow – SaaS House Rent Management System   2026
Next.js, Prisma, PostgreSQL, Clerk Authentication

- Built a multi-tenant SaaS platform for landlords to manage properties, rooms, and tenants.

- Implemented rent tracking, payment status monitoring, and secure tenant record management.

- Designed scalable database architecture for isolated organization data handling.

- Developed dashboard analytics for rent collection and occupancy tracking.

PotPlant – Full-Stack E-Commerce Platform (Web & Android)   2024
Next.js, Firebase, Firestore, Android (Kotlin)

- Developed a cross-platform plant e-commerce system with authentication and cart functionality.

- Built Android mobile application using Kotlin with real-time Firestore integration.

- Implemented product management system including add, edit, delete, and inventory tracking.

- Designed secure checkout flow and order management system.

SafeTrace – AI Powered Missing Person Detection System 2025
Python, Computer Vision, Machine Learning

- Developed an AI-based facial recognition system to assist in missing person identification.
- Integrated image processing and machine learning models for facial feature extraction.
- Designed data preprocessing pipeline to improve recognition accuracy.
- Focused on real-world applicability and scalable system design.

Personal Portfolio Website 2025
Next.js, Tailwind CSS

- Designed and deployed a fully responsive developer portfolio.
- Implemented modern UI design with animations and performance optimization.
- Showcased technical projects and GitHub repositories.

EXPERIENCE

Technical Project Contributor (Family Projects) 2022 – 2023
Independent / Family-Based Projects, Nepal

- Assisted in developing small-scale web-based systems and administrative tools.
- Supported data structuring, documentation, and workflow optimization.
- Participated in testing, debugging, and improving system functionality.
- Collaborated in requirement gathering and basic system design discussions.

Academic Project Development 2022 – Present
Bachelor in Computer Engineering

- Designed and developed full-stack web applications using React.js and Next.js.
- Built secure authentication systems and REST API integrations.
- Implemented database design and management using SQL and PostgreSQL.
- Applied problem-solving and algorithmic thinking in real-world project scenarios.