

Ashok Gaire

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Full-stack software developer focused on building and shipping new features into live production software. Experienced across backend services, web applications, and AI integration, with several products deployed to real users.

EXPERIENCE

Backend Developer & AI Integration

2025

Lodbod

Internship

- Built and shipped new features into existing production software, engineering backend services that reduced manual processing overhead for the core product.
- Scoped and delivered AI workflow automations in direct collaboration with the product team, extending core business capabilities within an active codebase.

Founder

2024 – Present

Qsmarte · qsmarte.com

- Architected, built, and launched a full web platform connecting students globally to research mentors and funded academic opportunities.
- Secured a university partnership with WVSU, funding a full 4-year scholarship plus stipend for one student per semester.

PROJECTS

Aion — Global AI News Platform | TypeScript, Next.js, Claude API, News API

2024 – Present

- Built a full web application that aggregates world news with AI-powered summaries and multilingual contextual chat; deployed to live users across multiple regions.
- Designed and integrated new features end to end, from frontend interface to API and AI layer.

Track Guru — Computer Vision Activity Monitor | Python, OpenCV, Next.js, Render, Vercel

2024 – Present

- Built a real-time computer vision pipeline using OpenCV to capture and analyze system and CCTV video feeds at 5-second intervals.
- Added AI-generated session summaries as a feature and deployed to live users for desktop monitoring and security operations.

Self-Driving Car Prototype | Python, C, Arduino, Ultrasonic + IR Sensor Fusion

2023

- Designed and built an autonomous vehicle with ultrasonic and IR sensor fusion for real-time obstacle detection; engineered full hardware-software integration from scratch.
- Awarded the Chief Minister's Innovation Award for low-cost autonomous systems engineering.

Forest Fire Detection Model | AI/ML, Python

2024

- Trained and deployed a computer vision detection model adopted by local government, reducing wildfire emergency response time by 25%.

TECHNICAL SKILLS

Languages & Frameworks: TypeScript, Python, C/C++, Rust (learning), Next.js, Django, SQL, HTML/CSS

AI & APIs: Claude API, OpenAI API, LLM integration, prompt engineering, custom model training

Infrastructure: AWS, Vercel, Render, Git, GitHub, Linux

Robotics & CV: Arduino, OpenCV, sensor fusion (ultrasonic + IR), motor control, real-time systems

Human Languages: English (Fluent), Nepali (Native)

EDUCATION

Texas State University

San Marcos, TX

B.S. Computer Science — Expected 05/30

Starting 08/26

Tilottama Secondary School

Nepal

High School Graduate — GPA: 3.51 / 4.00

2024

RECOGNITION

Chief Minister's Innovation Award

Rupandehi, 2023

Awarded for engineering a low-cost self-driving car prototype using Python, C, and Arduino.

State-Level IT Quiz Champion

2024

Placed 1st among 100+ students from 15 schools; evaluated on coding, AI, and emerging technology.