

Sushan Dahal

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Education

St. Xavier's College, Maitighar

NEB, Grades 11–12

Kathmandu, Nepal

2024 – 2026

VS Niketan H.S. School

Through Grade 10

Tinkune, Nepal

Projects

Fund My Vision

Winner, Hack4Impact – PCPS College

Two-sided marketplace connecting early-stage ideators with verified investors

- Enforced role-based access for ideators, investors, and admins through Express.js middleware over session-based authentication; built an investor KYC pipeline where admins approve or reject submissions.
- Added Socket.IO real-time messaging persisted in SQLite, so an investor's interest in an idea opens a direct conversation with its creator.

Stack: Node.js, Express.js, React, SQLite, Socket.IO

Best Password Manager

Open source · In active development

Client-side encrypted password vault; TypeScript monorepo with a Next.js frontend and Hono API

- Encrypts credentials in the browser with AES-256-GCM using a key derived from a separate master password via Argon2id and held only in memory, so a login session alone cannot decrypt the vault.
- Custom session auth with SHA-256-hashed random tokens, HttpOnly cookies, and Zod-validated Hono routes backed by PostgreSQL (Drizzle ORM).

Stack: TypeScript, Next.js, Hono, PostgreSQL, Drizzle ORM, Argon2id, Zod

Localify

Open source · CLI tool

Python CLI that turns public Spotify playlists into local MP3 collections, with no Spotify API key

- Scrapes lazy-loaded playlist pages with headless Chromium (Playwright), then matches each track to YouTube audio via yt-dlp using duration comparison and converts it to MP3 with FFmpeg; failed matches are skipped so batches finish.

Vidya Nepal

Live · vidyanepal.tech

Website for an initiative bringing Olympiad awareness to students in Nepal (team project)

- Built the responsive Next.js and TypeScript frontend from reusable Tailwind CSS and Aceternity UI components, with an interactive timeline and an EmailJS contact form; deployed on Vercel under a custom domain.

GameEDU

Runner-up, BNKS Hackathon

- Next.js backend and Tailwind CSS interface that convert a syllabus into interactive, game-based learning for students.

GetMeACoffee CLI

Learning project · Khalti payments

- Node.js terminal client with an Express and SQLite backend that lets supporters tip creators by username; a contribution is marked complete only after Khalti's lookup API verifies the payment.

Hackathons & Competitions

- PCPS Hack4Impact** — Winner (Fund My Vision).
- BNKS National Hackathon** — Runner-up (GameEDU).
- ACEM Arambha Hackathon** — Selected as the only +2-level team.

Experience

VIDYA — Web App Developer

Nepal

- Developed application features using the Bun runtime, Next.js, and SQLite.

National SXC Science Fest — Web App Developer

St. Xavier's College

- Co-developed the official registration and information website for the science fest.

Computer Club — Executive

St. Xavier's College

- Helped plan and run technical events for the college's Computer Club.

Nepal International ADR Center (NIAC) — Technical Support

Nepal

- Designed event banners and ran email marketing campaigns.
- Refined and polished the organization's website.

ICMB — Co-editor & Technical Support

Nepal

- Helped build and maintain the ICMB website and supported community outreach, including teaching children and running tech-awareness events.

Technical Skills

- Languages & Frontend** — JavaScript, TypeScript, Python, PHP, SQL, React, Next.js, HTML, CSS, Tailwind CSS.
- Backend & Databases** — Node.js, Express.js, Hono, Bun, Socket.IO, REST APIs, PostgreSQL, MySQL, MongoDB.
- Security & Auth** — Argon2id, AES-256-GCM, session-based auth, RBAC, Clerk.
- Tools & Integrations** — Git, GitHub, Playwright, Vitest, Vercel, Khalti and eSewa payment integration.