

Darshan Regmi

Full-Stack & Mobile Developer | BSc Computing (In Progress)

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PROFESSIONAL PROFILE

BSc Computing student at Informatics College Pokhara, pursuing a degree awarded by London Metropolitan University, with a focus on software engineering, scalable system design, and human-centered application development. Core competencies span full-stack web development (React, Next.js, Node.js), native mobile development (Swift/SwiftUI, React Native), and backend infrastructure (PostgreSQL, Firebase, Prisma). Actively exploring content delivery architecture — specifically optimizing Notion API as a headless CMS through caching layers and edge sync strategies to overcome its latency limitations. Open to research collaborations, academic partnerships, and international opportunities in software engineering or human-computer interaction.

EDUCATION

Informatics College Pokhara

Sep 2024 – Present

BSc (Hons) Computing — Computer Science

Awarding Institution: London Metropolitan University, UK

Expected Graduation: 2027 | Status: In Progress

Relevant Coursework: Fundamentals of Computing, Software Engineering, Data Structures & Algorithms, Database Systems, Web Technologies, Object-Oriented Programming, Operating Systems, Networks

- Volunteered at Futurama, ICP Graduation, and MST Carnival — college events organized by Informatics College Pokhara

Shree Shitaladevi Community Secondary School

2022 – 2024

High School — Management | GPA: 3.03 / 4.0

RESEARCH EXPERIENCE

Independent Study: SM-2 Spaced Repetition Algorithm

2025 – Present

Currently reading the original SM-2 paper by Piotr Wozniak as part of building the spaced repetition module in Brain Base. The algorithm is already implemented in the application; this study is focused on understanding the theoretical basis behind the interval and ease-factor calculations to validate and improve the implementation.

- SM-2 implemented in Brain Base (Next.js/Prisma stack) without third-party SRS libraries
- Studying the paper to verify the ease-factor decay and interval scheduling logic against Wozniak's original model

Applied Study: Notion API as a Headless CMS — Latency & Caching Strategies

2024 – Present

Actively researching ways to use Notion as a content backend for web and mobile applications while addressing its inherent API latency. Read official Notion API documentation and cross-referenced community references, performance reports, and third-party caching approaches to inform architecture decisions across two live projects.

- Evaluated Notion API rate limits and response times against direct database alternatives
- Implemented Notion → Firestore daily sync via Cloudflare Worker cron in 'i feel therefore i write', reducing API calls by ~95%
- Continuing to explore further caching and edge delivery strategies to make Notion-backed apps production-viable

PRESENTATIONS & PUBLIC WORK

InnoHack 2025 — Project Pitch Presentation

Presented a functional product concept to a panel of judges and peers at Informatics College Pokhara's annual hackathon.

Open-Source Projects — Public GitHub

All major projects are publicly available at github.com/darshan-regmi. Brain Base and the ICP Developers' Community site are fully open-source with documented codebases. 25 public repositories as of June 2026.

PROJECTS & TECHNICAL WORK

Brain Base — Second Brain — May 2026 brain-base-lake.vercel.app | github.com/darshan-regmi/brain-base
 Next.js 16 | TypeScript | Prisma | NextAuth v5 | Tailwind v4

Open-source, self-hostable productivity app: notes, quick capture, SM-2 spaced repetition, [[wikilink]] knowledge graph, focus timer, and daily journal.

- SM-2 spaced repetition implemented from scratch; bidirectional [[wikilink]] knowledge graph
- PWA with offline support; deployed on Vercel; no subscriptions required

Exam Seat Plan — Seating Management System — Apr 2026 rte.icp.edu.np | github.com/Exam-Seat-Plan
 React 18 | Vite | TypeScript | Django REST | JWT

Automated exam seating system built for and deployed in production at the RTE Department, Informatics College Pokhara.

- Built the React frontend and helped design the Django REST API structure (endpoints, JWT auth flow); admin panel, seat assignment engine, student lookup, PDF exports
- Replaced manual seating coordination entirely; used in production for all exam cycles

Line — Poetry Social Platform — May 2026 github.com/darshan-regmi/line
 React Native | Expo | Firebase | TypeScript

Mobile-first social network for poets: feed, follows, 1:1 DMs, collections, and push notifications.

- Optimistic UI; real-time Firebase backend; single Expo codebase for iOS and Android

ICP Developers' Community — Club Website — Jun 2026 icp-developers-community.vercel.app | github.com/icpdevelopers/icp-developers-community
 Next.js 14 | TypeScript | Tailwind CSS | Resend | hCaptcha

Public site for the student developer community at ICP. Application forms hardened by Resend, hCaptcha, email dedup, and per-IP rate limiting.

- Bot protection (hCaptcha), per-IP rate limiting, email deduplication via Resend; typed content module architecture

Margin — Native iOS Notes App — Mar 2026 github.com/darshan-regmi/margin

Swift | SwiftUI | Notion API | Firebase Auth

Minimal native iOS notes app: Markdown preview, debounced autosave, full-text search with highlighted matches, Notion sync.

- Built in Swift/SwiftUI; demonstrates ability to ship across web and native mobile stacks

Veon — Indie App Store — Jan 2026

veon.darshanregmi.com.np | github.com/darshan-regmi/veon

Next.js | TypeScript | Firebase | Cloudflare Pages

Web-based Android APK and book distribution platform with GitHub Releases API integration for automated version tracking.

- GitHub API integration for automated version delivery; global CI/CD on Cloudflare Pages

i feel therefore i write — Poetry Website —

poetry.darshanregmi.com.np

Mar 2026

Next.js 15 | Notion API | Firebase | Cloudflare Workers

Personal poetry platform with Notion as the content backend, synced daily to Firestore via a Cloudflare Worker cron for fast edge delivery.

- Notion → Firestore sync via Cloudflare Worker cron; ~95% reduction in direct API calls
- Anonymous likes, fuzzy search, edge rendering for fast cold loads

LEADERSHIP & COMMUNITY

ICP Developers' Community — Club Leader & Lead Frontend Developer

2025 – Present

- Lead the student developer community at Informatics College Pokhara; responsible for frontend architecture decisions and community direction
- Built and maintain the community's open-source public website; oversee technical contributions from members

InnoHack 2026 — Co-Organizer

2026

- Co-organized ICP's annual hackathon; managed logistics, judging panels, and participant experience for 50+ participants

InnoHack 2025 — Participant

2025

- Competed and shipped a functional product within a 7-hour window at Informatics College Pokhara

CERTIFICATIONS & TRAINING

Java Object-Oriented Programming — LinkedIn Learning | 2024

LANGUAGES & SKILLS

Languages

- Nepali — Native proficiency
- English — Professional working proficiency

Tools & Environment

- Figma (UI/UX prototyping)
- Docker (containerization)
- macOS (primary development environment)
- Git / GitHub (version control)

Technical Competencies

- Full-Stack Web: JavaScript, TypeScript, React, Next.js (14/15/16), Node.js, Express.js, Tailwind CSS, Vite
- Mobile: React Native (Expo), Swift, SwiftUI
- Backend & Data: PostgreSQL, Firebase, Supabase, MongoDB, Prisma, JWT, REST APIs
- Cloud & DevOps: Cloudflare Pages/Workers, Vercel, Docker, CI/CD pipelines
- APIs & Auth: Notion API, GitHub API, NextAuth v5, Firebase Auth, Resend, hCaptcha