

# SOPHIYA KHADKA

Computer Science Student

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## SUMMARY

Final-year Computer Science student at Kathmandu University with hands-on experience in full-stack and frontend development using React.js, Next.js, MERN, and Flutter. Skilled in designing responsive interfaces, implementing scalable backend systems, and applying modern authentication and automation tools. Strong interest in practical software engineering, user-focused design, and building products that solve real problems.

## EDUCATION

### Bachelor of Science in Computer Science

2021–2026 (Expected)

Kathmandu University, Dhulikhel

## SKILLS

- Languages:** TypeScript, JavaScript, Python, Dart, SQL, C/C++
- Web & App Development:** Next.js, React.js, MERN Stack, Flutter, Tailwind CSS, Shadcn UI, Prisma, Clerk
- Tools & Platforms:** Git, GitHub, Firebase, Pandas, Postman, Streamlit, Matplotlib, Canva, Figma
- Databases:** PostgreSQL, MongoDB, SQLite, NeonDB, Firebase Firestore
- Soft Skills:** UI/UX design, prototyping, teamwork, leadership, communication

## CERTIFICATIONS

- Legacy Responsive Web Design V8 — freeCodeCamp Completed: May 2024
- Front End Development Libraries V8 — freeCodeCamp Completed: June 2024
- Build Dynamic UI for Websites — Coursera Completed: August 2024

## PROJECTS

### AI Finance Platform

*Next.js 15, TailwindCSS, Gemini AI, Clerk, Shadcn UI, Prisma, Inngest, Arcjet*

- Built an AI-powered finance assistant with receipt scanning, OCR extraction, and automatic expense categorization.
- Integrated Gemini AI for summaries, insights, and spending recommendations.
- Structured financial data using Prisma and automated workflows with Inngest.
- Used Arcjet for security and designed a clean analytics dashboard with TailwindCSS.

### Full-Stack Journal App

*Next.js, React, TailwindCSS, Shadcn UI, Clerk, NeonDB*

- Built a full-stack journaling platform where users can create, edit, and manage entries through a clean, distraction-free interface.
- Implemented secure authentication using Clerk with protected routes and session management.
- Integrated NeonDB for fast, serverless PostgreSQL storage and optimized API routes via the Next.js App Router.
- Designed a responsive, minimal UI using TailwindCSS and Shadcn components.

#### **Calendly Clone (Scheduler)**

*Next.js, React, Prisma, Clerk, Shadcn UI,*

- Developed a modern meeting scheduler allowing users to set availability, share links, and manage bookings.
- Used Prisma ORM for time-zone-aware scheduling, conflict detection, and event records.
- Integrated Clerk for user onboarding and secure, role-based access.
- Designed a smooth booking flow with responsive TailwindCSS components from Shadcn UI.

#### **Kakshya – School Management System** *MERN Stack (MongoDB, Express.js, React.js, Node.js)*

- Created a MERN-based school system with dashboards for admins, teachers, and students.
- Built modules for attendance, exam results, notices, and student record management.
- Implemented JWT-based role authorization with secure backend middleware.
- Improved usability through intuitive components, real-time updates, and dynamic data tables.

#### **SLEEP-IN Hotel Booking Reservation App**

*MERN Stack (MongoDB, Express.js, React.js, Node.js)*

- Developed a hotel booking platform where users can search hotels, view room details, and make reservations in real time.
- Implemented secure authentication using JWT and HTTP-only cookies with protected user routes.
- Built RESTful APIs for managing users, hotels, rooms, and bookings, along with validation and error handling.
- Utilized React and Context API for global state management and created a clean, responsive UI for smooth navigation.

#### **WINKEL – Multi-Vendor E-Commerce App**

*Flutter, Firebase, Dart*

- Developed a multi-role e-commerce app supporting customers, vendors, and admins.
- Implemented product listings, orders, cart features, and vendor dashboards using Firebase.
- Used Firebase Auth and Firestore for real-time updates and secure role routing.
- Designed an intuitive Flutter interface and prepared the initial prototype in Canva.

#### **Streamlit Data Visualization Dashboard**

*Python, Streamlit, Pandas*

- Created an interactive climate dashboard to explore Nepal GIS daily datasets.
- Performed data cleaning and EDA using Pandas to reveal climate patterns.
- Implemented time-series charts, filters, and dynamic views in Streamlit.
- Showcased data engineering skills through real-world dataset processing.

## **EXTRACURRICULAR & LEADERSHIP**

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- Documentation Team Member — **KU Hackathon 2024**, responsible for recording and compiling event reports.
- Social Team Leader — **All Nepal IT Cup**, leading social media strategy, team coordination, and campaigns.