

ABHISHEKH NEPALI

Bagar-01, Pokhara

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Education

Prithvi Narayan Campus

Bachelors in Computer Science

Aug. 2023 – present

Bagar, Pokhara, Province 4

DAV Collage

+2, Science with computer science

Aug. 2021 – Nov 2022

Lagankhel, Kathmandu, Province 3

Relevant Coursework

- * Data Structures
- * Algorithms Analysis
- * Web Development
- * Cryptography
- * Software Methodology
- * Database Management
- * Systems Design
- * Computer Architecture

Experience

TheMistfitOfNightRaid

July 2023 – Dec 2023

Full-Stack Developer Intern

Pokhara, Province 4

- Developed a full-stack web application using **Next.js**, integrating **MongoDB** for database management and **Tailwind CSS** for responsive UI design.
- Implemented key **SEO optimization techniques** to improve web visibility and performance across search engines.
- Collaborated closely with team members using **Git** and **GitHub** for version control, task assignment, and code reviews.
- Tested and deployed the application across multiple platforms, ensuring a consistent and responsive user experience.

Projects

File Server Platform | *Next.js, Go (Fiber), TanStack Query, React Virtualization*

March 2025 – Present

- Designed and developed a scalable file server allowing users to create apps (up to 100) with 2.5 GB storage each, using token-based authentication for uploads.
- Implemented **Bloom Filter** for fast user validation and **sharded image indexing** using hashmaps to achieve O(1) metadata lookup without any database.
- Built a fully concurrent, thread-safe backend with per-user/app **quota management**, file logging, and custom log-based indexing system.
- Optimized frontend rendering of user images using **React Virtualization** and **TanStack's useInfiniteQuery** for smooth, paginated scroll.
- Built entirely without external services or databases, applying core system design principles for real-world performance and scalability.

Room Management System | *Next.js, MongoDB, Prisma ORM, Google Cloud Console*

August 2024

- Developed a full-stack **Room Management System** allowing users to search and book rooms through a user-friendly web interface.
- Built a comprehensive dashboard for house owners to manage listings, view analytics, handle finances, and monitor user engagement.
- Enabled real-time updates for adding, editing, and deleting room listings through a centralized backend platform.
- Integrated financial tracking tools to help owners manage earnings and expenses.

Student Management System | *Golang, Next.js, Express, Socket.IO, SQL*

October 2020

- Engineered a complete **Student Management System** enabling digital handling of admissions, attendance, academics, and communication.
- Built a robust backend using **Golang** to manage student records, role-based access, and reporting modules.
- Designed a separate **microservice-based chat system** using **Express.js** and **Socket.IO** to enable real-time communication between students, teachers, and admins.
- Developed the frontend with **Next.js**, including dashboards, to-do lists, class notes, event systems, and notifications.
- Implemented finance modules and analytics report generation to manage fees, dues, and performance data.

Technical Skills

Languages: JavaScript, Go (Golang), C++, Python, HTML/CSS, NoSQL (MongoDB)

Frameworks/Technologies: React, Next.js, Nodejs, Express.js, Linux, Git (Version Control)

Developer Tools: VS Code, Google Cloud Platform

AWS Cloud Club – Prithvi Narayan Campus

Jan 2025 – Present

Education & Technical Executive

Pokhara, Nepal

- Lead the Technical and Education Department, driving research, blog writing, certification preparation, and R&D initiatives.
- Designed and delivered the curriculum for technical workshops and events aligned with AWS technologies.
- Facilitated collaboration with AWS experts and mentors to enhance the technical learning experience of club members.
- Provided learning resources, tracked member progress, and offered one-on-one guidance and mentorship.
- Led engaging and inclusive technical sessions, webinars, and social media education campaigns.
- Actively supported community members in resolving AWS-related queries and fostered an inclusive learning environment.