

Gaurab Shrestha

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Education

Kathmandu University

Bachelor in Computer Engineering. CGPA 3.51

Dhulikhel, Nepal

April 2018 - July 2023

Experience

ReAlpha

Kathmandu, Nepal

Full Stack Software Engineer

Jan 2026 – Present

- Led Voice agent integration to the existing system, reducing average response latency from ~**8s** to under **2s** and improving real-time lead interaction experience.
- Designed and implemented a **SIP Provider Integration** module within the CMS, enabling organizations to connect telephony providers such as **Twilio, Infobip, Telnyx, and LiveKit Phone Numbers** through a unified onboarding experience powered by **LiveKit**. Built the foundation to support future Bring Your Own Carrier (BYOC) integrations.
- Built and scaled **Instagram** automation systems handling automated comment replies with custom post selection, targeted post engagement, and personalized DM workflows, significantly reducing manual outreach effort.
- Contributed to **Shopify, Magento** integration within the CMS, enabling streamlined product synchronization.
- Collaborated on backend APIs and internal tooling using NestJS and Prisma, supporting scalable workflows (react flow which is the main take, connects with the AI side and handles every conversation that takes place).
- Contributed to **AWS cloud infrastructure and deployment workflows**, leveraging **Infrastructure as Code (IaC)** and services including **Redshift, DMS, EC2, Amplify, RDS, S3, IAM, and Systems Manager (SSM)** to automate infrastructure, build analytics pipelines and complex SQL reporting, and implement reliable database migration and replication across environments.

Tech Stack: Next.js 14, TypeScript, TurboRepo, Tanstack Query, React hook form, Ant Design, Tailwind CSS, Prisma, AWS, Nest.js

Grepsr

Kathmandu, Nepal

Software Developer

July 2023 – Jan 2026

- Upgraded platform from Next.js 12 to 14 while maintaining legacy support
- Implemented gRPC for API communication and Auth0/Cerbos for authentication/authorization
- Created cookie-based transition system between old/new platform
- Built responsive UI with Tailwind CSS and optimized assets via CDN caching
- Engineered a resilient file upload system using AWS S3 Multipart Uploads (Python/gRPC) with Temporal orchestration for large files (25GB+, 99.9% success), while implementing uploads for smaller files via Next.js too.
- Developed Chrome Extension + Dashboard (TurboRepo monorepo) serving 1,200+ MAUs
- Integrated OAuth2 with Google Drive, Dropbox, and other providers for file delivery
- **Hackathon Project:** Built GPT-powered data transformation tool (Next.js) for dynamic rule generation and deployed on AWS.
- Tailored backend services using NestJS for API gateway and microservice communication to segregate api from Next.js
- Developed basic RPC services using Python for inter-service communication

Tech Stack: Next.js 14, TypeScript, TurboRepo, Tanstack Query, Zustand, Ant Design, Tailwind CSS, gRPC, REST, AWS, Nest.js, Python

Grepsr

Kathmandu, Nepal

Product Development, Intern

April 2023 – July 2023

- Developed WordPress-integrated pages using Frontity (React headless CMS)
- Created and published reusable MUI component library via npm with Storybook testing
- Integrated the component library into Grepsr's main platform

Tech Stack: Frontity, Next.js, TypeScript, Material-UI (MUI), Storybook

Freelance Experience

Shloka, *Frontend Developer*

December 2024 – February 2025

- Created secure role-based dashboards (admin/teacher/student) with customized access
- Developed attendance system with real-time updates, filtering, and export features
- Built finance module handling fee collection, expenses, and automated payment reminders
- Integrated REST APIs and managed state with Redux

Tech Stack: React, Ant Design, REST APIs, Redux

Forever Bidya Homestay, *Web Developer*

June 2025 – Dec 2025

- Developed responsive property website (SEO optimized) for [homestay](#) using [Next.js](#)
- Handled property listings in Airbnb, [Booking.com](#), Expedia, Vrbo.
- Integrated property listings with Booking.com API, ensuring real-time availability updates

Tech Stack: Next.js, TypeScript, Shadcn, Tailwind

Projects

The Boys, *Personal Project*

- Architected and developed a full-stack team management platform using Next.js 14 with TypeScript and Supabase
- Engineered a real-time voting system allowing players to vote for preferred positions (Goalkeeper, Defender, Midfielder, Forward) with live vote tracking
- Implemented intelligent team distribution algorithm that automatically forms balanced teams based on player votes and positions
- Built secure authentication system with Google OAuth, handling user sessions and authorization flows
- Developed responsive UI components using shadcn/ui and Tailwind CSS, ensuring mobile-first design
- Designed PostgreSQL database schema on Supabase to manage users, polls, votes, and team configurations
- Created real-time features for live vote updates and dynamic team formation without page refreshes

Tech Stack: Next.js 14, TypeScript, Supabase (PostgreSQL, Auth), Google OAuth, Tailwind CSS, shadcn/ui

Tech Pulse - Full-Stack AI News Platform, *Personal Project*

- Engineered an AI-powered summarization feature using Google's Gemini API to automatically generate concise summaries of tech news articles
- Developed the backend in Go, creating RESTful APIs to handle news aggregation, bookmarks, and AI processing
- Built a responsive Next.js frontend with TypeScript, implementing real-time chat interface similar to ChatGPT
- Designed the database schema and API architecture to support scalable news content management

Tech Stack: Go, Next.js 14, TypeScript, Google Gemini API, REST APIs, PostgreSQL, Tailwind CSS, Shadcn

Certification and workshop

- [Advanced React](#)
- [Rest API with Node.js](#)
- Git & GitHub workshop (Kings college) as Mentor

Reference

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