

# GURDEEP SINGH

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Full-stack developer with experience building **interactive web applications and AI-powered solutions** using **React, Next.js, Node.js, Django, Flask, and Payload CMS**. Skilled in designing **end-to-end systems** including chatbots, learning platforms, dashboards, and subscription workflows, with seamless integration between frontend, backend, databases, and third-party APIs. Focused on delivering **efficient, scalable, and user-centric digital experiences**.

## Experience

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### Software Developer | Devex Hub Private Limited | SAS Nagar, Punjab, India

SEPTEMBER 2024 – JANUARY 2026

- Built **AI-driven report systems** using Flask & OpenAI, reducing analysis latency by 30% and improving data accuracy.
- Developed **personalized chatbots** fine-tuned on custom data with React.js and MongoDB, boosting user engagement by 25%.
- Designed **dynamic dashboards** with React.js and Chart.js, enabling real-time insights and enhancing decision-making.
- Engineered a **SaaS platform** (Flask backend, Next.js frontend) that lets businesses train custom AI assistants from their websites and deploy them across web, WhatsApp, or as standalone bots.
- Led **end-to-end development** including backend architecture, multi-tenant training pipelines, frontend UI, and cloud deployment.
- Created a **Django-based WhatsApp bot** for study courses, integrating conversational AI for interactive lessons, real-time support, and progress tracking to improve learner engagement.

### Junior Software Developer | Openocean Technologies | SAS Nagar, Punjab, India

SEPTEMBER 2023 – AUGUST 2024

- Led the integration of Next Js with a Mono repo approach, enhancing loading time and performance for e-commerce websites.
- Implemented Context API around global components for scalability, achieving a 14-point increase in performance scores.
- Built AI-driven tools to generate attractive business names and compelling product descriptions using OpenAI 4.0's models.
- Optimized product performance through advanced SEO strategies, including meta tags, Open Graph tags, and JSON schemas.

### Software Developer Intern | Samsung Data Systems | Gurugram, Haryana, India

MARCH 2023 – JUNE 2023

- Developed pixel-perfect React.js layouts from Figma designs, utilizing the latest React upgrades for seamless implementation.
- Increased performance by analyzing and optimizing critical functions, improving overall application efficiency.

## Skills

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- Backend:** Node.js, Django, REST APIs
- Frontend:** React.js, Next.js, Redux, Tailwind CSS
- Databases:** MySQL, MongoDB, PostgreSQL, Vector Databases
- AI/ML:** OpenAI, LLM, RAG, Machine Learning, Prompt Engineering
- Tools:** Git, GitHub, GitHub Actions, AWS (EC2, S3, RDS)

## Projects

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### DEUXMILLE.CC — CYCLING PERFORMANCE SAAS PLATFORM • SENIOR FULL-STACK DEVELOPER

**Tech Stack:** Next.js | Payload CMS (v3) | MongoDB | Google Maps API | Mapbox | Strava API | Stripe | Vercel

- Architected and built a production-ready SaaS platform **from scratch** using Next.js and Payload CMS, delivering a scalable, CMS-driven system for geospatial and performance-based data.
- Designed and implemented advanced Payload CMS collections (Users, Media, Cols) with deep nested schemas, enabling management of **200+ mountain passes** and multi-segment cycling routes.

- Built custom admin workflows with interactive maps, location search, marker placement, route visualization, and automated altitude and gradient calculations.
- Developed high-performance frontend pages (Cols overview and detail views) featuring map-based navigation, search, sorting, filtering, SEO optimization, and responsive UI.
- Implemented **Strava OAuth authentication**, background jobs, and webhook-driven data ingestion to sync user activities and compute real-time leaderboards and statistics.
- Engineered aggregation pipelines for **global and country-level rankings**, elevation gain metrics, and YTD vs all-time performance analytics.
- Integrated **Stripe subscriptions and one-time payments** enabling gated features, membership upgrades, and post-purchase user entitlements.
- Optimized frontend and backend performance by addressing slow image loading, large dataset rendering, and dark/light mode inconsistencies.

#### YASHRAA.AI — AI Chatbot Platform • Full-Stack Developer

**Tech Stack:** Next.js | FastAPI (Python) | MySQL | Vector Databases | OpenAI, DeepSeek, Gemini | Paypal, RazorPay, Cashfree

- Built and deployed a **production-ready AI chatbot powered by a custom RAG (Retrieval-Augmented Generation) system**, enabling highly accurate, context-aware conversations.
- Designed and implemented **training pipelines** with vector databases, allowing each chatbot to be trained on websites, webpages, and files.
- Integrated multiple **LLMs** (OpenAI, DeepSeek, Gemini, etc.) to provide flexible, scalable, and model-agnostic chatbot responses.
- Developed a **subscription-based system** where users can create and manage multiple chatbots based on their plan.
- Enabled seamless deployment of chatbots as standalone widgets, website support tools, and marketing/help assistants on **WhatsApp, Slack, and Teams**. Built **Zapier integration** to automate lead generation and marketing workflows.

#### NIKKOWORKX.AI — WhatsApp-Based Learning System • Full-Stack Developer

**Tech Stack:** React | Django (Python) | AWS RDS (MySQL) | Meta Graph API (WhatsApp) | OpenAI

- Developed a **WhatsApp-based learning platform** delivering text-only courses with automated user progress tracking, reminders, and certificate issuance.
- Designed **lesson-wise course delivery** with timers, progress tracking, mid-course quizzes, and assessment gates to ensure structured learning.
- Implemented **WhatsApp automation** via Meta Graph API for greetings, course delivery, reminders, and notifications.
- Leveraged **OpenAI for intent matching** to enhance user interaction and streamline course navigation.
- Automated **certificate generation in PDF format** upon course completion and built an **admin dashboard** to manage users, courses, reminders, and progress monitoring.
- **Solely architected and implemented the project** as a full-stack developer, ensuring seamless integration across frontend, backend, database, and WhatsApp messaging systems.

#### Open-Source Website Template with Payload CMS and Next.js • Full Stack Developer & Top Contributor

- Created an open-source website template using Next.js and Payload CMS, enabling users to build fully dynamic and customizable websites effortlessly.

## Education

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**Bachelor of Technology Computer Science Engineering | I.K. Gujral Punjab Technical University, Jalandhar**

8.59 GPA • 2019 - 2023