KARTIK SHARMA

Full Stack Developer

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Dehradun, India

SUMMARY

A dedicated software engineer with an inquisitive, detail-oriented, open-minded, and responsible mindset. My excitement lies in trying out new things and applying them in practical situations. I love learning new technologies and staying up-to-date with the latest trends. My day-to-day development involves using AI tools such as Claude, Cursor, and v0, leveraging them to maximize productivity. Throughout my career, I've worked on various projects and delivered high-quality, performant, appealing, accessible, and scalable websites and software. I've integrated various third-party APIs into the applications.

EXPERIENCE

Full Stack Developer
Montreal, Canada (Remote)
12/2023 - Present

Nesoi.ai
https://nesoi.ai/
Interactive AI video platform enhancing e-learning experiences

- Built core application architecture from the ground up using **Next.Js, Typescript, Node.Js and Python**, establishing foundational codebase patterns
- I designed and implemented the complete frontend architecture of the video player with custom controls, interactive features, and seamless AI avatar integration.
- Implemented the entire gateway service backend in Node.js to manage all endpoints for video creation, editing, user management, chat logs, analytics etc.
- Built multiple innovative features including Text-to-speech capabilities, talking avatars that simulate **Zoom meeting experiences**, **Roleplay lessons**, and **Interactive quiz modules**
- Created a module to precompute AI responses, decreasing **AI latency by 70%**
- Implemented Deepgram for speech-to-text functionality, increased **talk-with-mic efficiency by 100%**
- Integrated Convex database to enhance data management and application performance
- Optimized and **tweaked LLMs** specifically for educational use cases, creating fallback systems using Anthropic, Gemini, and Llama models
- Created comprehensive product documentation for new engineers, streamlining onboarding and improving codebase understanding
- Architected containerized backend solutions with automated CI/CD pipelines, ensuring seamless deployment and consistent performance

Software Developer
Hyderabad
06/2022 - 09/2023

Estatedekho
https://estatedekho.com/
Real estate platform for buying, selling, and renting properties

- Led the entire frontend development lifecycle, building the UI and implementing features from scratch
- Developed the application using Next.js to create **SEO-friendly** and interactive UI, resulting in **30% increase** in lead generation
- Implemented server-side rendering (**SSR)** to optimize search engine visibility and improve page load performance
- Created responsive property listing pages with advanced filtering capabilities, enhancing user experience
- Developed **mobile-responsive** layouts that drove increased engagement from mobile users
- Gathered data from API/web services via Fetch JSON calls and updated the DOM within the result set
- Utilized Redux to handle API calls and maintain the application's state
- Maintaining and upgrading seller panel and QC panel
- Optimized image loading and caching strategies, improving site performance metrics
- Implemented user authentication and profile management features with secure session handling
- Collaborated with UX designers to implement a design system that ensured consistency across the platform

Web Developer Intern
Dehradun
01/2022 - 04/2022

Webixun Infoways

- Developed and implemented frontend components for a supermarket website, enhancing online shopping experience
- Created responsive landing pages for various clients, optimizing for conversions and user engagement
- Contributed to the development of Weazy.in, a QR code-based platform enabling contactless ordering and payment processing.
- Collaborated with cross-functional teams to deliver client solutions on time and within specifications
- Gained hands-on experience with payment gateway integrations for e-commerce functionality
- Responsible for developing web applications using various JavaScript frameworks such as React.js, Next.js
- Environment: HTML5, CSS3, Bootstrap v5.3, React.js, Postman

EDUCATION

B.Tech in Computer Science Engineering
Dehradun, Uttarakhand
06/2017 - 07/2021

Graphic Era Hill University

KEY ACHIEVEMENTS

100xDev

Completed and earned certification from 100xDevs open source cohort, enhancing skills in collaborative software development

Open Source Contributions

Matrix.org, https://matrix.turbo.fish/, Matrix is an open standard for interoperable, decentralised, real-time communication., Fixed multiple issues, including one functionality issue related to a selection filter., Implemented a solution to ensure that one specific result was unselected by default in the selection filter.

SKILLS

React.js, Next.js, Remix, JavaScript, TypeScript, HTML5, CSS3, Tailwind CSS

Node.js, Express.js, Python, Flask, RESTful APIs, WebSockets

MongoDB, Mongoose ODM, Convex DB, Prisma, GraphQL

AWS, GCP, Docker