Pravas Chandra Sarkar

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Skills

Languages : C , C++ , C# , Javascript , JAVA , GO , PHP , Python , Typescript , SQL

Technologies & Tools : React.JS , Next.JS , TailwindCSS , Node.JS , Prisma , MongoDB , MySQL , GraphQL , Redux-toolkit , Docker , WebSocket , WebRTC , OpenAI API, Java Swing , Flutter

Work Experience

Code My Pixel, Narayanganj , Dhaka - *(December 2022 - Present)*

Software Developer

- Created a plugin where AI interacts with clients by asking questions and administering exams.
- Utilized Next.js, Prisma, and MongoDB for a SaaS platform.Enabled visitors to generate AI content and download it in PDF format.Implemented functionality for users to upload their own PDFs for AI-assisted chat. Developed a feature allowing users to generate images using DALL-E.
- Fine-tuned a 7 billion parameter AI model. Developed API features and a front-end AI chatting system.
- Proficient in HTML, CSS, JavaScript, and PHP. Experienced in leveraging various AI and web development technologies for comprehensive solutions.
- Designed and implemented responsive web applications ensuring optimal performance. Leveraged modern web technologies to create user-friendly and efficient interfaces.

Education

Stamford University Bangladesh - *January 2020 – June 2025 (Expected)*
Bachelor of Science in Computer Science and Engineering
Relevant Coursework: Object Oriented Programming , Database System Management , Discrete Mathematics , Data Structure & Algorithm , Operating System , Computer Network , Software Engineering, Software Management System , Artificial Intelligence , Computer Graphics , Data Mining

Project Work

Alpha Drafts

I worked on a SaaS project where visitors can generate content using AI, download it in PDF format, and upload their own PDFs to chat with the AI for assistance. For this project, I used

Next.js for the main structure, Shadcn UI and Tailwind for styling, Next.js serverless functions, and Prisma for data input/output. I also utilized the OpenAI Assistance API for creating content and Langchain for AI tasks.(https://www.alphadrafts.com/)

WordPress Plugin

I worked on a WordPress custom plugin project where AI interacts with clients by asking questions and administering exams. I developed the entire project independently, utilizing the OpenAI API to handle the AI interactions. My responsibilities included designing and implementing the HTML, CSS, JavaScript, and PHP components to create a seamless user experience. Additionally, I integrated the plugin with the WordPress backend to ensure smooth data handling and storage. Throughout the project, I focused on creating an intuitive interface and robust functionality to enhance user engagement and streamline the examination process.

ASYCD

I worked on a SaaS project using Next.js, Prisma, and MongoDB, where I created an image-generating feature that allows visitors to generate images with the help of AI using DALL-E. For this project, I was responsible for designing the overall architecture and implementing the backend logic using Next.js serverless functions and Prisma for efficient data management. The front end was built with Next.js and styled using Tailwind CSS, ensuring a responsive and user-friendly interface. I integrated the DALL-E API to enable AI-powered image generation, providing users with a seamless experience to create and download unique images. Additionally, I implemented authentication and user management features, allowing users to securely save and access their generated images. Throughout the development process, I focused on optimizing performance and ensuring scalability to handle a growing user base.(https://tev1.asycd.online/)

AI CUSTOM MODEL

I also worked with the AI Open Model from Hugging Face, specifically a 7-billion parameter model. I fine-tuned the model, developed API features, and created the frontend AI chatting system. The fine-tuning improved model accuracy, while the API facilitated seamless integration. The front end, designed for user-friendly interactions, enabled dynamic conversations with the AI. I ensured the system's responsiveness, accessibility, and robust performance through comprehensive error handling and logging mechanisms.

Image AI Pro

In this project, I worked on the landing page and dashboard page for an image background removal SaaS application. Users can upload images, remove the backgrounds, and replace them with different colors. Additionally, they can edit images by changing their aspect ratios, such as converting a 1:1 ratio image to a 16:9 ratio while preserving the content. The generative fill feature works best when the images are realistically captured, enhancing their appearance.(https://imageaipro.vercel.app/)