

Pratik Kumar Singh

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Education

Heritage Institute Of Technology

B.Tech in Computer Science Engineering(Data Science) CGPA-7.91(Till 5th semester)

Kolkata, West Bengal

September, 2022 – Present

Experience

HeadStarterAI

Software Engineering Fellow

July 2024 – August 2024

Remote

- Worked as a **SWE Fellow** in **Track-B** (Final project that takes a startup's current backlog and builds it meeting business requirements.) with my Team.

Projects

CodeXpert | ReactJs, Tailwind CSS, JavaScript, Flask, SQLite, Recharts, Python, GoogleAuth

April 2025

- Built a **full-stack** intelligent programming lab platform for educators to assign **AI-generated** coding problems and track student performance in real time. [Repository](#) | [Demo](#)
- Engineered **backend services** with Flask and SQLite database, supporting secure **user authentication** via **Google OAuth**.
- Developed a **responsive frontend** using ReactJS and Tailwind CSS; implemented data visualization with Recharts.

JobQuest | ReactJs, Vite, Tailwind CSS, Shadcn/UI, Supabase, Clerk, Zod

January 2025

- Developed a **full-stack** job portal that streamlines the job search and hiring process, enabling seamless recruiter-candidate interactions. [Repository](#) | [Live](#)
- Implemented secure **authentication and user management** using **Clerk**, with **Zod** ensuring robust **form validation** and data integrity.
- Utilized **Supabase** for real-time **database management**, and application tracking.
- Designed a sleek, **responsive UI** with **Shadcn/UI**, improving user experience across devices.

IndustryXpert | Bootstrap, HTML, CSS, Javascript, Flask, Sqlite, Python

April 2024

- Industry Xpert is an AI based cutting-edge web application aimed at revolutionizing safety protocols within industrial environments. [Repository](#) | [Demo](#)
- I have developed the **entire Front-end** of this project for user friendly interface.
- Also I handled major **Backend Portions(50-55%)** like **Authentication, integration** and **database management** using SQLAlchemy and increased the project productivity by **2x**.

Technical Skills

Languages:

C++, JavaScript, TypeScript, Python, HTML, CSS

Frameworks:

React.js, Node.js, Express.js, Tailwind CSS, Flask

Database:

SQLite, MongoDB

Tools & Platforms:

Git, GitHub, Postman

Libraries:

Pandas, NumPy, Matplotlib

Achievements

- Winner at Rebase<01>** and **Best AI/ML Track** in a month-long **online hackathon** organized by **GDSC IIIT Kalyani**.
- Achieved **2nd runner-up** position at **HackSpire-2024**, a 12-hr **offline hackathon** organized by **FIEM-ACM Student Chapter** at **Future Institute of Technology**, with 2000+ participants from across India.
- Outreach Lead & Core Team** member at **Google Developer Groups On Campus HITK**.
- CommunityLead** at **NooBuild** — successfully managing a tech community of **1000+** community members.
- Campus Ambassador** (Student Executive) at **Unstop**, representing my college.