

Chanchal Pradhan

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Summary

Full Stack AI Developer passionate about building intelligent, production-ready applications that combine modern web technologies with AI. Experienced in architecting scalable systems using Next.js, TypeScript, Node.js, Google Cloud, BigQuery, Firebase, and Gemini AI, with expertise in real-time data pipelines, multimodal AI, and cloud-native application development.

Education

University of Kalyani

Bachelor of Technology in Electronics and Communication Engineering (GPA: 8.78 / 10.00) Aug 2024 – Apr 2028

- Specialized Coursework:** Data structures and algorithms, Machine Learning, ANNs, Database management systems, Soft Computing

Experience

Code Your Idea | React.js, Next.js, Node.js, MongoDB

Co-Founder & CEO

June 2025 – Mar 2026

Kolkata, India (On-site)

- Co-founded a web and app development agency, leading full-stack delivery of 10+ SaaS and marketplace products using React.js, Next.js, Node.js, and MongoDB.
- Led client relationships, technical sales, and business strategy while overseeing engineering execution alongside a technical co-founder.

Klero Généalogie | React.js, TypeScript, Tailwind CSS, Node.js, PostgreSQL

Full Stack Web Developer

Mar 2025 – May 2025

France (Remote)

- Engineered responsive, dynamic user interfaces using React.js and TypeScript, and developed 15+ RESTful APIs in Node.js to manage front-to-back data flow.
- Managed server operations and deployment, optimizing applications on VPS servers to ensure high performance and seamless functionality.

Projects

VAYU | AI-powered Environmental Intelligence Platform

June 2026 – Ongoing

- Architected an AI-powered environmental intelligence platform that fuses IoT sensor streams with citizen-reported imagery to detect pollution hotspots and generate actionable environmental insights in real time.
- Engineered an end-to-end multimodal AI pipeline integrating Gemini Vision, BigQuery, Firebase Storage, Google Maps Platform, and Cloud Functions for automated image analysis, geospatial hotspot detection, and AQI forecasting.

Rentyaard | MongoDB, Express.js, React, Node.js

July 2025 – Sept 2025

- Built a comprehensive property rental and real estate platform (www.rentyaard.com) modeled after industry leaders like 99acres and housing.com.
- Architected scalable backend models to handle diverse property listings, user authentication, and search filtering.

Technical Skills

Languages: JavaScript, TypeScript, Python, C, C++, SQL

Frontend: React.js, Next.js, HTML/CSS, Tailwind CSS, Figma

Backend: Node.js, Express.js, MongoDB, PostgreSQL, Firebase, BigQuery

AI / Machine Learning: Google Gemini API, OpenAI API, Claude API, AI Pipelines, LLM Integration

Cloud & DevOps: Google Cloud, Firebase, Vercel, Render, Railway, Git, Git Hub, VPS Server Management