

Pratham Das

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Full-Stack Developer with 2 years of experience shipping production web applications in startup environments. Built backend systems and REST APIs using Python (FastAPI), Node.js, Express, and PostgreSQL, with hands-on experience in database modeling and performance optimization. Strong frontend expertise in React, with additional experience building projects in Next.js, delivering end-to-end features across the stack.

PROJECTS

Raggy – Distributed RAG-Based Learning System

Github

- Designed and implemented an asynchronous ingestion architecture where user-uploaded content (YouTube, PDFs, audio, video, text) is queued, processed by Celery workers, converted to text (Whisper), and persisted in PostgreSQL and S3-compatible storage (MinIO).
- Built parallel worker pipelines for embedding generation and vector indexing (Qdrant) alongside automated summarization, enabling non-blocking processing and scalable concurrent workloads using Redis as broker.
- Engineered retrieval and QA services using FastAPI and LangChain, supporting contextual chat over user-provided data with authentication, rate limiting, structured logging, and protected LLM-backed endpoints.
- Integrated text-to-speech generation with object storage persistence, delivering both textual and audio responses while maintaining backend-driven orchestration of OpenAI-powered workflows.

EXPERIENCE

HashedTokens

Aug 2024 – Present

Founding Intern

- Built and shipped 10+ production-grade frontend applications, architected for scalability and fast iteration, enabling teams to ship features confidently without degrading performance over time.
- Consistently achieved 90+ Lighthouse scores across performance, SEO, and accessibility, improving load speed, search visibility, and user experience — directly supporting higher retention and conversion potential.
- Reduced client-side bundle size by 35% by restructuring rendering strategies and isolating interactivity, resulting in faster page loads on low-bandwidth devices and improved Core Web Vitals.
- Designed predictable state and data layers integrating REST, WebSockets, and Server-Sent Events, collaborating closely with backend engineers across different system architectures while maintaining 85%+ automated test coverage and Docker-based reproducible deployments.

Connektra.io

Jan 2025 – Apr 2025

Software Engineering Intern

- Designed and delivered a production-grade authentication system integrating 5+ auth endpoints, expanding support to 15+ external connectors, and enabling 10+ multi-connector automation flows — deployed through zero-downtime releases with 99.9%+ uptime.
- Reduced render time by 30%, eliminated 35+ UI bugs, and cut network traffic by 25% by optimizing component re-renders, batching 10+ API calls, and restructuring client/server state management.
- Reduced failed form submissions by 80% by enforcing stricter validation rules, eliminating unchecked inputs, and minimizing unnecessary data transfer — resolving 200+ type inconsistencies and migrating 80% of the codebase to stronger type safety, significantly improving data reliability and release stability.

EDUCATION

Kalyani Government Engineering College

West Bengal, India

Bachelor of Technology in Information Technology and Engineering -

Aug. 2022 – Expected July 2026

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Go, SQL

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

Backend: FastAPI, Express.js, Hono.js

Databases: PostgreSQL, SQLite, Redis, Qdrant, Minio

AI: LangChain, Whisper, Retrieval-Augmented Generation (RAG)

Other tools: Git, Docker, Docker Compose, Pytest

Spoken Languages: Bengali(Native), English(Proficient), Hindi(Fluent)