

Pratyush Pragyeey

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EDUCATION

National Institute of Technology Hamirpur

Bachelor of Technology in Electronics and Communication Engineering

Hamirpur, India

Aug 2023 – Apr 2027

TECHNICAL SKILLS

Languages: C++, JavaScript, TypeScript, Rust, Go, SQL

Frontend: React, Next.js, Tailwind CSS, Zustand, TanStack Query

Backend: Node.js, Express.js, PostgreSQL, Redis, GraphQL

AI/ML: LangChain, LangGraph, RAG, Semantic Search, Vector Embeddings, Ollama, Qdrant

Infra: AWS, DigitalOcean, Docker, Kubernetes, Jenkins, Terraform, Ansible, GitOps

EXPERIENCE

Frontend Developer Intern

Feb 2025 – Jun 2025

CtrlB

Bengaluru, India

- Optimized frontend architecture across 3 production repositories, improving maintainability and accelerating feature delivery by **20%**.
- Resolved **20+** frontend bugs and improved state management, reducing UI errors and crashes by **30%**.
- Integrated REST APIs and built responsive interfaces, improving mobile performance and cross-device consistency by **25%**.

Web Developer Lead

Mar 2025 – Present

App Team, NIT Hamirpur

Hamirpur, India

- Developed and optimized the CSE department website using React and Tailwind CSS with API integrations and SQL query optimization.
- Reduced page load time by **30%** using lazy loading, WebP image optimization, and removal of redundant JavaScript modules.
- Improved search visibility by **30%** through SEO optimization and performance monitoring using Google Search Console.

Open Source Contributor

Oct 2025 – Mar 2026

The Palisadoes Foundation

Remote

- Contributed to open-source projects with **25+** merged pull requests, including **10+** during Hacktoberfest.

PROJECTS

Anima | *Live* | *GitHub*

Apr 2026 – Present

- Tech Stack:** Next.js, Python, GraphQL, PostgreSQL, Qdrant, Ollama
- Built an AI-powered semantic anime discovery engine using vector embeddings and weighted multi-vector retrieval across **14K+** anime records.
- Designed a hybrid retrieval pipeline combining PostgreSQL filtering, Qdrant vector search, and cross-encoder reranking, reducing irrelevant matches by **40%+**.
- Optimized retrieval caching and ranking pipeline, reducing average search latency by **60%**.

ExplainBytes | *Live* | *GitHub*

Apr 2026 – Present

- Tech Stack:** Next.js, TanStack, TipTap, Yjs, Elasticsearch, Redis
- Built a collaborative technical learning platform spanning **5+** computer science domains with structured documentation and flashcards.
- Designed Elasticsearch + Redis search infrastructure, reducing concept lookup latency from **400ms** to **100ms**.
- Implemented collaborative MDX publishing workflows with moderation and CI/CD, reducing publishing from **6+ manual steps** to a single approval.

ACHIEVEMENTS

- Secured **1st place** in Electrothon 7.0 and **Runner-up** in HackSecure by building innovative solutions under strict deadlines.
- Led web development for **Hack On Hills**, managing technical infrastructure for a large-scale hackathon.