

CHINMAY SINGH

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SKILLS

- **Languages:** C++, JavaScript, TypeScript
- **Frameworks:** React.js, Node.js, Express.js, Next.js, PHP
- **Databases:** PostgreSQL, MongoDB, MySQL, Vespa
- **Cloud & Tools:** AWS, Firebase, Docker, Git, GitHub

EXPERIENCE

Product Engineer Intern

Jul 2025 – Present

Juspay

- Built a **low-latency search system** using **PostgreSQL Full-Text Search** and **trigram-based similarity search (pg_trgm)** with **GIN indexes**, achieving **sub-100ms** query latency on **50,000+** records across multiple entities.
- Implemented a **Retrieval-Augmented Generation (RAG)** pipeline over a **structured knowledge base**, enabling **context-aware LLM responses**.
- Designed a flexible **training module architecture** supporting dynamic **phases, steps**, and dependencies, tightly integrated with the knowledge base.
- Implemented smooth **real-time streaming text rendering** using a **queue-based buffering system** for ordered, flicker-free LLM outputs.
- **Tech Stack:** React, TypeScript, PostgreSQL, pg_trgm, GIN Indexes, LLMs, RAG, AWS

Product Development Intern

Oct 2024 – Jul 2025

Inditech Health Solution

- Resolved **production issues** in **live healthcare systems**, ensuring **high availability** and minimal downtime.
- Built **responsive web interfaces** to streamline **patient-doctor interactions** and digital workflows.
- Improved **operational efficiency** by implementing **doctor profiles** for managing patient records and reports.
- **Tech Stack:** PHP, MySQL, AWS

PROJECTS

StreamZone — Video-sharing platform

- Built features for **video uploads, channel management, JWT-based authentication, comments, likes**, and basic **video editing**.
- Integrated **Cloudinary** with **Multer** for scalable media uploads and used **MongoDB aggregation** for analytics.
- **Tech Stack:** MERN [Backend](#) [Frontend](#)

UniFind — College predictor platform

- Built **backend APIs** to analyze **historical cutoff data** and predict **college allocation** based on **rank, quota**, and **domicile**.
- **Tech Stack:** MERN [Live](#) [Code](#)

EDUCATION

Bachelor of Technology, Bhagwan Parshuram Institute of Technology

Expected 2026

Computer Science Engineering CGPA: 8.662

Class XII, Neo Convent School

2021 – 2022

Science (Non-Medical) Percentage: 92

EXTRA-CURRICULAR ACTIVITIES

- **Winner**, Web-d-verse 2.0 Hackathon — built a **full-stack e-commerce platform**.
- Selected among **Top 50 teams** in **Smart India Hackathon 2023**.