AYUSH KASHYAP

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Experience

Optimence | Oct 2025 – Present

Software Development Intern| Remote, IN

- Developed features for **Transformik.com** using **Next.js, Supabase,** and **TypeScript**, including in-house AI tools like **content repurposer, Google Calendar - integrated content manager**, **new category additions**, and **production bug** fixes to improve platform reliability.
- Automated workflows using **Python**, including tool listing processes, **dataset management**, **controlled data extraction**, and **LLM-based content generation**, while maintaining structured tool records through **spreadsheets** for efficient operations.

Edunet Foundation | Jul 2025 – Aug 2025

AI & Cloud Intern | Remote, IN

- Completed a **4-week AICTE-accredited internship** in collaboration with **IBM SkillsBuild** and **Edunet Foundation,** focusing on **AI and Cloud Computing.**
- Built an **Agentic AI** application on **IBM Cloud** using **watsonx.ai** and **watsonx.runtime**, implementing **Retrieval-Augmented Generation (RAG)** with a **foundation model** to **address digital financial literacy** challenges.

Heritage Institute of Technology | May 2025 – June 2025

Frontend Engineer (Freelance Project) | Remote, IN

- Designed and developed the official **Resonance Music Club** website with **Next.js, Tailwind, Canvas-based dynamic background, and shadcn-UI**. **Integrated Cloudinary and Next.js** for optimized media storage and image performance.

Projects

ComuniQ | **[Project Link]** | **[Github]**   React.js | Tailwind | Node.js | Zustand | Express.js | Socket.io | Docker | AWS

- Built a **full-stack real-time chat app** using **React.js, Node.js, Express.js, MongoDB**, and **Socket.io**, supporting private chats, group channels, global chatroom, and full media handling via **Cloudinary.**
- Implemented s**ecure auth with JWT + Google OAuth 2.0**, and optimized frontend performance using memoization, l**azy loading**, and shadcn-UI, cutting unnecessary re-renders by ~40%.
- Containerized the entire application using **Docker** and deployed on **AWS EC2** with **NGINX** reverse proxy and **Certbot SSL**, delivering a scalable, secure, production-grade **HTTPS setup**.

Postly | **[Project Link]** | **[Github]**   React.js | Tailwind | TypeScript | Hono.js | PostgreSQL | Cloudflare

- Developed a r**esponsive full-stack blog platform** in **TypeScript** using **React.js, Tailwind CSS, Prisma, and PostgreSQL** with **connection pooling, featuring post creation, reading, secure authentication**, and **Cloudinary** integration for **media management.**
- Enhanced **content generation** and **scalability** by integrating Mistral AI for **dynamic blog creation/suggestions**, and building a **serverless backend** with **Cloudflare Workers & Hono** through a **shared npm package using Zod.**

Technical Skills

Programming Languages: C, C++, JavaScript, TypeScript
Web Technologies: HTML, CSS, React.js, Express.js, Tailwind CSS, Node.js, MongoDB, Zustand, NPM
Tools & Platforms: Git, GitHub, Postman, MySQL, AWS, Docker, NGINX
Computer Science Fundamentals: Data Structures And Algorithms, OOP, DBMS, Operating System
Soft Skills: Leadership, Collaboration, Problem-Solving, Communication, Mentorship

Education

Heritage Institute of Technology, Kolkata, West Bengal	**Oct 2022– June 2025**
B.Tech, Computer Science and Engineering (IOT & CS)	
Vidya Bhawan Balika Vidyapith, Lakhisarai, Bihar	**Apr 2020 – Mar 2022**
Senior Secondary (CBSE)	

Achievements

Open-Source Contributor at **SWoC 5.0**, contributing to collaborative development and **real-world projects**.

Mentored **50+ students** in a **NooBuild session** introducing the **fundamentals of web development.**