Pankaj Tyagi

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Summary

Full-Stack Web Developer with strong expertise in **Nextjs, GSAP/Motion,** and modern front-end technologies. Experienced in building secure, scalable web platforms— ranging from **a music-streaming website** to data driven finance management website **and AI chatbot integrations**. Proficient in authentication using **OAuth** and **Next-Auth** and responsive UI design using modern components libraries. Skilled in debugging and delivering real world projects with clean, maintainable code. Enthusiastic about turning client requirements into robust solutions that perform reliably in production.

EDUCATION

Doon Institute of Engineering & Technology | Bachelor of Technology   Rishikesh, Uttarakhand | 2021 - 2025
Affiliated with Uttarakhand Technical University (UTU)

Maria School | Intermediate   Jaspur, Uttarakhand | 2020 – 2021
Affiliated with Council for the Indian School Certificate Examinations (CISCE)

SKILLS

Programming Language: Java, JavaScript, Python.
Web Development: React.js, Next.js, Express.js, Django, GSAP Animation, Tailwind CSS.
Database Management: PostgreSQL, MongoDB (Query Optimization, Database Design).
Tools & Version Control: Git, GitHub, Clerk, Redux, Prisma.
Testing: Manual & Functional Testing, Debugging, API Testing (Postman), Bug Tracking (GitHub Issues).
Component Libraries: ShadCN, Aceternity UI, ReactBits, etc.

EXPERIENCE

Web Developer Intern

EY Technologies | 6 weeks   Feb 2024 – Apr 2024
- Developed a **Django-based** music streaming platform serving 1,000+ monthly active users with sub-second page loads, cutting database query time by 20%.
- Worked on feature implementation, bug fixing, and **performance improvements** for real-world projects.
- Gained experience in **database management**, and authentication systems.
- Boosted user engagement by 30% through **performance optimizations** (lazy loading, query indexing) and redesigned navigation.

Computer Science Intern

Edunet Foundation | 4 weeks   Feb 2024 – Mar 2024
- Built and deployed an **AI** chatbot using **IBM** Watson, reducing average customer response time by 40% and improving user engagement.
- Gained first-hand experience in conversational AI, **NLP** and chatbot integration for websites.
- Underwent training in chatbot development, **AI/ML** fundamentals, and deployment strategies.
- Worked collaboratively on refining the chatbot's user interactions and functionality.

PROJECTS

Fin Morph AI (Finance Management System) | Live | Source Code
- Built a **Next.js-powered finance management platform** enabling users to track and manage their finances with data-driven insights.
- Implemented **automated receipt parsing** to reduce manual entries by 70%, and integrated **Clerk-based authentication** for secure and seamless user access.
- Added **data-driven monthly budget report generation**, improving expense forecasting accuracy by 25%.

Brain Notes AI (Note Taking WebApp) | Live **|** Source Code
- A smart note-taking app with AI chatbot integration, using **RAG (Retrieval Augmented Generation)** to answer questions based on your notes.
- Backend powered by Convex for secure authentication, with **Vercel AI SDK v5** for seamless tool-calling and real-time responses.
- Utilizes **OpenRouter API** for advanced language understanding, enabling quick and context-aware answers to help with study, research, or brainstorming.

Crypto Track Leads (Crypto Website) | Live | Source Code
- Designed to deliver live price updates every 10 sec for 5,000+ coins with interactive sparkline charts.
- Built with features like portfolio management displaying real-time profit/loss and an **integrated currency converter**.
- Enhanced user experience by implementing dynamic search filters and a modern UI with Tailwind CSS.

ACHIEVEMENTS & CONTRIBUTIONS

- Contributed to **open-source** projects in the **React** and **JavaScript** ecosystems, implementing feature enhancements, bug fixes, and documentation improvements.
- Demonstrated **MERN full-stack development** expertise through a practical evaluation by **DevRhylme Foundation (2024).**
- **Collaborated in Unstop Hackathon (2023)** to design and deliver an innovative, competitive project.