

Khushpreet Singh

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Experience

Zyvka HR Tech Pvt Ltd

May 2025 – Present

Software Development Engineer I

Gurugram, Haryana

- Designing a scalable AI agent platform using Next.js, React, and Shadcn UI, implementing composition patterns to maintain code quality.
- Optimized frontend runtime performance by eliminating wasted re-renders using React Profiler and memoization, improving interaction speed by **30%**.
- Reduced initial bundle size by **73%** through strategic code-splitting and lazy loading of heavy UI components.
- Building responsive web apps and integrating RESTful APIs with robust state management.

Zyvka HR Tech Pvt Ltd

July 2024 – April 2025

Software Development Engineer Intern

Gurugram, Haryana

- Led the migration of legacy codebase to React 19 and Shadcn UI, resulting in a **40%** reduction in technical debt and better UI consistency.
- Integrated real-time chat functionality via Stream Chat API using custom React hooks and Redux for global state management.
- Automated the deployment of landing website on AWS EC2 with CI/CD pipelines via GitHub Actions and managed AWS RDS instances.

Solitaire Infosys Pvt. Ltd

June 2023 – July 2023

Summer Internship Trainee

Sahibzada Ajit Singh Nagar, Punjab

- Explored MERN stack (MongoDB, Express.js, React, Node.js) fundamentals and built introductory full-stack applications.

Projects

EchoPass (Ultrasonic Attendance System) | Next.js, Tailwind CSS, Shadcn UI, PostgreSQL

- Engineered a "Proof of Presence" system that generates randomized **High-Frequency Audio (>19kHz)** on the instructor device and validates it against a server-stored token.
- Implemented real-time audio signal analysis on client devices to detect the specific active frequency, ensuring students are within physical range to mark attendance.
- Designed a comprehensive admin dashboard for analytics and user management using Tailwind CSS and NextAuth.

Real-Time Chat Application | Next.js, Socket.IO, NextAuth, PostgreSQL, Prisma ORM

- Developed a high-concurrency messaging application enabling bidirectional real-time communication via Socket.IO.
- Implemented secure user sessions with NextAuth and optimized database queries using Prisma ORM.

Movie Explorer Platform | Next.js, TMDB API, Tailwind CSS, Shadcn UI

- Developed a responsive movie discovery platform integrating TMDB API and Google's Gemini AI for personalized recommendations.

Technical Skills

- **Frontend:** React (Advanced Patterns, Performance Optimization), Next.js, TypeScript, HTML5, CSS3
- **CSS Frameworks:** Tailwind CSS, Shadcn UI, Ant Design
- **Backend:** Node.js, Express.js, RESTful APIs, Authentication (NextAuth)
- **Database:** PostgreSQL, MongoDB, Prisma ORM
- **Cloud & DevOps:** AWS (EC2, RDS), CI/CD, GitHub Actions
- **Tools:** Git, GitHub, VS Code, React Profiler

Education

Sant Longowal Institute of Engineering and Technology (CGPA: 9.12)

Oct. 2021 – May 2025

Bachelor of Engineering in Computer Science

Longowal, Punjab