Arshdeep Singh

Software Developer (Bengaluru)

+91-6283531374 | arshdeepsinghkhalsa2001@gmail.com | **Linkedin** | **Github**

SUMMARY

Skilled Software Developer with over 2 years of experience in building scalable web applications using React.js, Next.js, and TypeScript. Expertise in frontend system design, data visualization, and secure cloud integrations across sustainability tech, film industry, and virtual labs.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, HTML, CSS
Frameworks: Tailwind CSS, Next.js
Developer Tools: Git, Github, AWS S3, AWS EC2, GCP, Dialogflow CX, Dialogflow ES,
Libraries: React JS, Node js, Redux Toolkit, Express

EXPERIENCE

NNIIT - Software Developer — July. 2025 – Present
Hyderabad, India

- Built a **unified Next.js + Node.js platform** with role-based access for students, tutors, teachers, and admins.
- Automating **onboarding workflows** (document upload, profile setup, status tracking) reducing manual effort by **70%**.
- Developed **student portal** with classes, assignments, analytics, fee management, and doubt resolution (**99.9% uptime, WCAG compliant**).
- Designed **teacher/tutor dashboards** for scheduling, performance analytics, and communication, improving outcomes by **25%**
- Engineered **modular admin panel** for user, content, finance, and security management with **real-time analytics.**.
- Implemented **WebSocket-powered chat** (1:1, groups, role-based) and **attendance/engagement analytics** scalable to **1M+ users.**

Sustainability Economics - Software Developer — June. 2024 – June. 2025
Focus around lifecycle management of E2E Net-Zero transitions across multiple sectors. — *Bengaluru, India*

- Increased **user engagement by 30%** through engineered **responsive front-end architectures** using **ReactJS, TypeScript, and Redux.**
- Optimized **internal finance control for 50 projects** aligned with **sustainability goals** while developing a **user-friendly Sustainability Economics News** to **Next.js**, achieving **95+ Lighthouse scores** via **SSR/ISR and SEO metadata.** Integrated **Google Analytics (100%)** and **Microsoft Clarity** for **heatmaps and session recordings.**
- Collaborated with **UX/UI teams** using **Figma and Adobe XD** to translate designs into **50+ responsive pages**, reducing UI delivery time by 50% and ensuring **cross-browser/device compatibility.**
- Integrated **secure OAuth2 authentication** with **NextAuth.js (Google, LinkedIn)**, supporting **10K+ users** with **server-side session management** for **scalable access control.**

Kintop Pictures - Software Developer — June. 2023 – June. 2024
Zillit - It is a seamless film industry operations and resource management software . — *Noida, India*

- Designed and developed a **comprehensive film management platform**, integrating **custom image/video editors, secure AWS S3 uploads, RSA encryption,** and **dynamic localization in 22+ languages**, resulting in a **40% increase in platform adoption across global teams**
- Streamlined **cross-functional collaboration** by implementing a **dynamic weekly calendar, badge-based task tracking, and Role-based access control (RBAC)** through **admin/profile modules**, reducing **pre-production overhead by 35%** and boosting **task clarity among teams.**
- Built a **smart catering module** with **real-time chat support**, enabling seamless coordination between **production depart- ments** and reducing **meal-related delays by 50%**, significantly improving **on-set operational efficiency.**

- Constructed a **scalable event management system** with full **CRUD functionality (Create, Read, Update, Delete)** and **invitation workflows**, increasing **team event coordination efficiency by 45%** across all production stages

Front Developer(Intern) May 2023 - Oct. 2023

Indian Institute of Technology, Virtual AI Labs *Roorkee, India*

- Achieved **enhanced learning outcomes for 200 students** by pioneering **virtual labs in Machine Learning and Artificial Neural Networks.**
- Elevated **educational engagement by 40%** through created **animated simulations** for **immersive virtual labs.**

PROJECTS

Handy Spot | *Next.js, React.js, TypeScript, SCSS, MongoDB, Express, Node.js*

- Led end-to-end development of "Handy Spot" using MERN stack, focusing on scalability and performance. Built a localized service platform with registration, profile showcasing, GPS based tracking, real-time provider discovery, dynamic dashboards, and in-app communication [Link].

Cryptify | *Next.js, React.js, TypeScript, SCSS*

- Developed a real-time cryptocurrency tracker with interactive charts using React Chart.js 2, delivering seamless UX and performance [Link].

Velvo Platform | *React, Node.js, TypeScript, SCSS , AWS EC2*

- Built a complete e-commerce platform with responsive UI, dynamic product listings, and efficient state management [Link].

Redmail | *Next.js, React.js, TypeScript, SCSS*

- Created a modern, SEO-optimized marketing website with responsive design and performance enhancements [Link].

EDUCATION

Khalsa College of Engineering and Technology (2020-2024) Amritsar, India

Engineer's Degree, Computer Science , CGPA - 8.6