

# Arpit Tyagi

Full Stack Developer  
at Renderpub, Bangalore  
B.Tech CSE in 2024 from  
Lovely Professional University, Punjab

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## EXPERIENCE

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### Full Stack Developer

Renderpub

Aug 2024 – Current

Bangalore, KA

- Implemented **group video calling** in 360Tours using **Cloudflare Calls**, and migrated from PEER.js to Durable Objects for low latency real-time communication and improved **multiplayer** experience.
- Migrated from MongoDB to **Cloudflare D1** (SQLite) and from Web3Auth to Auth.js for improved performance, security and scalability.
- Optimized the **APIs** by introducing global variables reducing the average API response time from **1500ms to 600ms** resulting in faster user interactions, and enhanced application responsiveness.
- Developed public or private **user dashboards** for showcasing **AI generations** and 360Tours of a user in one place.

### Full Stack Developer Intern

Renderpub

Oct 2023 – Aug 2024

Bangalore, KA

- Enhanced 360Tours, a highly optimized **3D** web architectural environment made in **Three.js** and **Sveltekit**, by implementing numerous features and integrating a **multiplayer** system using PEER.js, fostering real-time **peer-to-peer** communication and engagement.
- Reduced downtime to 0% by implementing seamless update system through "Renderpub Launcher" a cross-platform software made with SvelteKit and **Electron**, ensuring seamless user experience and compatibility.
- Owned the **full-stack development** lifecycle: designed, implemented, and maintained REST APIs and backend middleware, using React.js, Next.js for frontend and Cloudflare and MongoDB for efficient data management

## EDUCATION

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### B.Tech in Computer Science and Engineering

Lovely Professional University (LPU) | Jalandhar, Punjab, IN  
CGPA: 7.9 / 10

Apr 2020 – Jul 2024

### Intermediate Education

MS Senior Secondary Public School | Mandi Dhanaura, Uttar Pradesh, IN  
Marks: 85.7%

Apr 2018 – Apr 2020

### High School Education

MS Senior Secondary Public School | Mandi Dhanaura, Uttar Pradesh, IN  
Marks: 87.0%

Apr 2016 – Apr 2018

## SKILLS

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- Programming Languages:** C, C++, JavaScript / TypeScript, Python
- Frontend Technologies:** React.js, Next.js, Redux, Svelte, SvelteKit, Bootstrap, Tailwind CSS, jQuery, Chart.js, Three.js, electron.js
- Backend Technologies:** Node.js, Express.js, API development, Socket.io, Peer.js, MySQL, MongoDB
- Dev Tools:** Git, GitHub, VS Code, npm, Postman, Cloudflare, Vercel, Netlify
- Soft Skills:** Adaptable, effective as team worker, collaborative, observant, ambitious, practical and effective hands-on learner, empathetic and helpful towards others.

## PROJECTS

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### **Sachin Textiles:** *(an e-commerce website)*

Mar 2025

[GitHub](#) | [Hosted](#)

- Designed and developed a custom e-commerce platform for a textile business using **Next.js**, focusing on performance, scalability, and **SEO** optimization.
- Crafted a responsive and visually appealing UI using **Tailwind CSS**, featuring carousels, category sections, and modular, reusable components.
- Implemented **Redux Toolkit** for scalable and efficient global state management across the application and **TypeScript** to ensure type safety.
- Optimized performance and search engine visibility through **Static Site Generation** (SSG) and **Server-Side Rendering** (SSR) capabilities of Next.js.
- Built dynamic features including search functionality, category-wise shopping, sorting mechanisms, and a secure checkout flow with **Razorpay**, leading to increased user engagement and smoother transactions.

### **Link Up:** *(a real-time messaging platform)*

Jul 2023

[GitHub](#) | [Hosted](#)

- Developed an **MERN** stack chatting application, user-friendly login and sign-up pages, utilized Google authentication and cookies to maintain user sessions, achieved **25 stars** and **30 forks** on GitHub.
- Reached **100+ users sign-ups** and added visually appealing and intuitive user interface, used socket.io for real-time chatting and functionalities such as online status and last seen.
- Implemented secure data storage on **MongoDB** using bcrypt for encryption and protection. Employed axios and cors for efficient API communication, enabling seamless integration with the **Express server**.

### **Speedy Keys:** *(a typing practice website)*

May 2023

[GitHub](#) | [Hosted](#)

- A **React** and **Tailwind CSS**-based typing speed test with performance metrics like WPM, accuracy, and error count, time taken etc.
- Implemented **multiple difficulty levels** (Basic, Intermediate, Advanced) and **customizable time durations**, allowing users to personalize their typing challenges and track improvements over time.
- Implemented **dark and light theme toggle**, enhancing user experience and visual comfort across different lighting environments.