

Wriddhi Hazra

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EDUCATION

JIS University

Bachelor of Technology in Computer Science

July 2020 – July 2024

Kolkata, IN

EXPERIENCE

Software Development Engineer - I

Dec 2024 – Present

Omaza Innovations LLP | *Next.js, TypeScript, WebRTC*

Bangalore, IN

- Architected and implemented a production-grade livestreaming platform as a Progressive Web App (**PWA**) using Next.js, TypeScript, and WebRTC, enabling real-time switching between multiple RTC providers (**LiveKit** and **ZegoCloud**) with zero-stream-drop transitions, supporting **10,000+ concurrent viewers** and maintaining sub-**500ms** latency.
- Designed and deployed interactive livestream features such as Player Knockout Battles and Dynamic Challenge Fulfillments, resulting in a **35% increase in gross revenue** and higher average session durations and user retention.
- Integrated livestreaming into native Android and iOS applications via **WebView**, enabling backend logic updates to be shipped in **3–4 days** instead of the standard **2 weeks**, representing a **75% reduction** in release time and ensuring uninterrupted user experience.
- Built an internal analytics dashboard leveraging the **Google Maps API** to visualize real-time user distribution and engagement patterns by geography, improving marketing targeting and event planning efficiency.

Frontend Intern

Feb. 2024 – Aug. 2024

Zscaler | *React, TypeScript, JavaScript*

Bangalore, IN

- Migrated the codebase to leverage cutting-edge data fetching and caching libraries like Axios and React Query, enhancing loading states for **100+** components while eliminating redundant logic, which streamlined overall application performance.
- Unified build tools across all micro-frontend applications within a monorepo by standardizing on Webpack, replacing the previous combination of tools like Vite and Rollup. Achieved a **20%** reduction in build times and enhanced maintainability across **15+** applications, boosting cross-team collaboration and consistency in the development workflow.
- Implemented code-splitting to decrease the initial JavaScript bundle size by **30%**, resulting in faster loading of the application and reduced wait time for end users.
- Enhanced front-end code coverage in a React application from **75%** to **88%** using Jest and React Testing Library, as measured by SonarQube.

OPEN SOURCE

Pujo Atlas | *Astro, React, TypeScript, TailwindCSS, Cloudflare, Sentry*

Sep 2024 – Present

- Led the development of a web application using Astro with React islands for shipping an extremely lightweight first bundle to the client with no JavaScript, helping **140,000** users find Durga Puja locations in Kolkata. We served **1,140,000** requests with zero downtime.
- Mentored students and conducted code reviews for Hacktoberfest contributors as a core maintainer, ensuring high-quality code and adherence to coherent, scalable design patterns for long-term project maintenance.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Bash, SQL, HTML, CSS

Frameworks/Libraries: React.js, Next.js, Node.js, Express.js, Nginx, Apache, Flask, TailwindCSS

Tools: Docker, Git, GitHub, Terraform, Ansible, Sentry, JIRA, BitBucket, Confluence

Platforms: Vercel, Amazon Web Services, Microsoft Azure, Google Cloud Platform, Digital Ocean, Cloudflare

ACHIEVEMENTS

- Won a place among the **top 10** innovators in India at the XR Grand Challenge 2022 by FITT-IIT Delhi and Meta (Facebook), and was invited to attend the live bootcamp at IIT Delhi Campus, Delhi.
- Achieved **14th** place in the Ground Zero Hackathon - West Bengal Cyber Challenge, 2022, organized by the Cyber Security Centre of Excellence, West Bengal, and the Indian School of Ethical Hacking (ISOEH).