Onkar Vatsa

(Software Engineer)

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Summary

Software Engineer with 2 years of experience building fast, scalable, and user-centric web applications using **React.js**, **Next.js**, **TypeScript**, and **Tailwind CSS**. Skilled in designing responsive interfaces, clean component architecture, and efficient state management. Experienced in developing **real-time features using WebSockets** and implementing **LLM-powered functionalities** to enhance user experience. Strong collaborator with a solid foundation in Agile workflows, code quality, and delivering production-ready features across multiple ed-tech platforms.

Achievements

- Successfully delivered multiple full-scale ed-tech platforms on time by streamlining development workflows and collaborating effectively with cross-functional teams.
- Enhanced development efficiency and code quality by creating reusable UI components and standardizing frontend best practices across projects.
- Delivered responsive, high-performance, and accessible frontends using Next.js, TypeScript, and Tailwind CSS, significantly improving overall user experience.

Experience

Software Development Engineer - I   *Gurugram, Haryana*
Infyni   *February 2024 – Present*

- Led frontend engineering for multiple large-scale ed-tech platforms including the **Ed-Tech Marketplace**, **Homework Program**, and **Infyni Business**, using **Next.js**, **TypeScript**, and **Tailwind CSS** to deliver high-performance, scalable UIs.
- Built **AI-driven features** such as real-time teaching assistance using **LLMs + WebSockets** and **automated learning-path generation**, significantly improving learning experience and platform intelligence.
- Developed reusable, scalable UI components and enforced consistent coding standards through thorough **code reviews** and GitLab merge request approvals.
- Implemented secure **authentication flows** using NextAuth (Email/Password + OAuth) and integrated RESTful and third-party APIs for seamless product functionality.
- Delivered optimized, responsive frontends using modern rendering strategies (SSR, ISR) and improved development velocity by automating key frontend processes.
- Collaborated closely with backend and design teams to ensure smooth integration, improved performance, and reliable user experiences across platforms.

Internships

React Developer Intern   *Gurugram, Haryana*
Infyni   *Nov 2023 – Jan 2024*

Worked on building an ed-tech marketplace using Next.js, TypeScript, SASS, MUI, and Tailwind CSS, integrating NextAuth authentication and collaborating with backend/UI teams to deliver responsive, high-performing user interfaces.

Full Stack Developer Intern   *Remote*
KEIC, K.R. Mangalam   *Oct 2022 – Mar 2023*

Developed backend features for a multi-vendor food ordering app using Node.js, Express, MongoDB, and React.js, creating REST APIs and implementing authentication, order workflows, and core server-side logic.

Projects

1. Ed-Tech Marketplace   *Live* ⬈

- Spearheaded the frontend migration from Django templates to a modern stack using **Next.js**, **TypeScript**, and **Tailwind CSS**, significantly improving platform performance and maintainability.
- Implemented advanced learning features including **AI-powered real-time teaching assistance** using LLMs and WebSockets, and **automated learning-path generation** for self-paced courses to improve student learning outcomes.

- ○ Integrated **Stripe international payments**, **IP-based authentication**, and secure user-role login flows to support seamless and compliant global onboarding.
- ○ Developed real-time class infrastructure using **Whereby** and **Zoom SDK** for one-on-one and group session scheduling, enabling smooth, high-quality video learning experiences.
- ○ Created reusable, scalable UI components and integrated RESTful and third-party APIs for dynamic content rendering and enhanced user interaction.
- ○ Optimized deployment workflows and improved the overall user experience by leveraging advanced Next.js features such as ISR, SSR, and smart caching.

2. **Homework Program**   *Live* ↗
- ○ Built a scalable, interactive e-learning platform from scratch that supports real-time one-on-one and group sessions, enhancing teacher-student engagement.
- ○ Designed reusable components to improve scalability and development efficiency.
- ○ Incorporated user-friendly features and optimized deployment workflows using Next.js, ensuring a seamless and responsive experience across all devices.

3. **Multi-Vendor Food Ordering Web App**   *GitHub* ↗
- ○ Independently developed a full-stack multi-vendor food ordering platform enabling users to browse restaurants, place orders, and track deliveries.
- ○ Built a responsive, intuitive UI using React.js, HTML, CSS, and JavaScript for seamless cross-device experience.
- ○ Implemented RESTful APIs with Node.js and Express for authentication, vendor management, and order handling.
- ○ Managed scalable data storage using MongoDB and integrated Cloudinary for media uploads and optimization.
- ○ Integrated Razorpay payment gateway for secure and seamless online transactions.
- ○ Deployed and maintained the app on a reliable hosting environment ensuring smooth performance and high availability.

4. **Infyni Business**   *Live* ↗
- ○ Independently developed the website using Next.js, TypeScript, and Tailwind CSS with robust integration of RESTful and third-party APIs to deliver real-time business interactions.

Technical Skills

- ○ **Programming Languages:** Proficient in JavaScript and TypeScript and familiar with C/C++ and Java
- ○ **Frontend Development:** React.js, Next.js, Angular, HTML, CSS, SASS, Vite, State Management with Redux Toolkit and Redux, Tailwind CSS, Chakra UI, Material-UI, Bootstrap, Responsive Web Design, Cross-Browser Compatibility, Payment Gateway Integration (Razorpay, Stripe), Figma, Component Architecture, UI/UX Implementation
- ○ **Backend Development:** Node.js, Express.js, MongoDB, REST APIs
- ○ **Authentication & Security:** JWT, NextAuth, Role-Based Authentication
- ○ **Performance Optimization:** Code Splitting, Lazy Loading, Cross-Browser Compatibility
- ○ **Version Control & Cloud Platforms:** Git, Gitlab, GitHub, CI/CD, Vercel, Netlify, Postman, Microsoft Visual Studio Code
- ○ **Other Skills:** Object-Oriented Programming (OOP), Full-Stack Development, API Integration, Agile Methodologies, Scrum, Kanban, Code Reviews, Debugging, Collaboration

Education

K.R. Mangalam University	*Gurugram, Haryana, India*
Bachelor of Technology (Computer Science Engineering)	*September 2020 – July 2024*