



Vivsvaan Sharma

Senior Software Engineer

Software Engineer with 5+ Years Experience Expert in Frontend (Angular). Skilled in performance optimization, scalable architectures, and SEO-driven enhancements. Proven track record in boosting engagement, improving load times, and leading high-impact projects.

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TECHNICAL SKILLS

Frontend

JavaScript, TypeScript, Angular, HTML/CSS

Backend

Python, Django, JavaScript, NodeJs, REST APIs, SQL

Core Concepts

Data Structures, Algorithms, Performance Optimisation, SSR, SEO, Web Security

Tools

Git, Docker, Linux/Bash, JIRA, Jenkins, Grafana, Webpack, Jest, Cypress, Vite, Figma

WORK EXPERIENCE

Senior Software Engineer

Adani Digital Labs - Trainman

08/2023 - Present

Achievements/Tasks

- **SEO & Performance Optimization:** Boosted Performance Score from **59 to 90+**, SEO score from **42 to 100**, reducing bundle size and improving **LCP, CLS, and Accessibility**. Increased **organic traffic** significantly.
- **Angular 18 Migration & SSR Enhancements:** Led migration to **Angular 18**, implemented **hydration for SSR**, and separated **static pages** into an Express codebase, reducing load on booking servers.
- **White Label Solution (WLS) Development:** Created a **pluggable booking flow** integrated into **AdaniOne, ClearTrip** and other client platforms, expanding business reach.
- **User Engagement & Revenue Growth:** Reduced **drop rates** by optimizing the **Booking Pending & Refund process**. Increased user retention via **Wallet, Flash Sales, Offers, & Discounts**.
- **Security & Architecture Improvements:** Enforced **secure authentication**, input validation, and **protection against XSS/CSRF**. Designed scalable **frontend service architectures** for complex implementations.
- **Leadership & CI/CD Implementation:** Led a **team of 5 engineers**, conducting daily stand-ups, spring planning, and **code reviews** to ensure high-quality standards and timely project delivery. Streamlined **frontend deployments** via **CI/CD pipelines**.

Senior Software Engineer

Trainman

12/2021 - 08/2023

Achievements/Tasks

- **93% Increase in User Bookings:** Revamped the website with **better UI/UX**, improving **engagement & conversion rates**.
- **Performance & SEO Boost:** Reduced **page load time from 6s to < 2s**, implemented **SSR & SEO strategies**, adding **100K+ DAUs** from organic search.
- **Integration Plugin for B2B Clients:** Developed a **Booking Flow Plugin**, securing partnerships with **Wibmo, Adani**, leading to **Trainman's acquisition by Adani**.
- **Built Trainman Website** from Scratch: Developed a new Trainman website in **Angular 13**, introducing scalable services, optimized architecture, and efficient code structure. Implemented **complex Train Sorting & Filtering Logic**, merging cached & real-time data, with **load balancing via Nginx**.
- **Web Development & API Integrations:** Built **responsive, dynamic web apps** with backend-controlled features, integrating IRCTC, Razorpay, WebEngage, and Google Analytics, improving platform functionality.
- **Code Quality & Team Leadership:** Established **coding standards**, led a team of **5 engineers**, conducted **code reviews**, and ensured **on-time project delivery**.

WORK EXPERIENCE

Software Engineer

uTrade Solutions Pvt Ltd

01/2020 - 12/2021

Achievements/Tasks

- **Optimized API Performance & Memory Usage:** Reduced **Django REST API response time** from **8s to 3s**, optimizing **SQL queries & implementing throttling techniques**, significantly improving efficiency.
- **Frontend Performance Enhancement:** Integrated **data caching services** in **Angular**, minimizing **server requests** and improving **load times**.
- **JWT Authentication Module Development:** Built a **secure authentication system** using **Django REST & Angular**, strengthening platform security.
- **Trading Platform UI Revamp:** Led a **complete UI overhaul** using **Angular & Ionic**, improving **user experience** with design inspiration from **Zerodha & other trading platforms**.
- **High-Performance Python Server:** Designed a **multi-processing Python server** for **two-way communication** between clients & servers using **gRPC**, ensuring **high-speed data exchange**.
- **Full-Stack Feature Development:** Implemented **new APIs & frontend features** in **Django REST, Angular, and Ionic**, enhancing platform functionality and usability.

EDUCATION

Bachelor of Engineering, Computer Science

Chandigarh College of Engineering and Technology, Punjab University, Chandigarh

07/2016 - 06/2020

LEADERSHIP & CONTRIBUTIONS

Web Lead (Trainman) (12/2021 - Present)

*Led a team of 5 **Frontend engineers**, improving **code quality by 40%** through structured **code reviews**, **performance audits**, **best practice enforcement** and **timely project deliveries** across multiple projects.*

Vice Chairman - CCET ACM Student Chapter

(08/2018 - 09/2019)

*Organized a **college-wide Hackathon** and multiple **technical events**, fostering innovation and student engagement.*

Sub-Head - CCET Website Development Team

(07/2017 - 06/2019)

*Designed and developed the **college website from scratch**, handling both **frontend & backend implementation**.*

Co-Head - CSE Tech Committee.

*Co-Led the **CSE Tech Committee**, organizing **major technical events** for the annual college fest, **APRATIM**.*

OTHER PROJECTS

Portfolio (<https://vivsvaan.com>) (08/2021 - 09/2021)

- Designed and developed a **Personal Portfolio** from scratch using **Figma for UI/UX design** and **Angular for implementation**.
- Hosted on **GitHub Pages**, ensuring a **lightweight and high-performance** web experience.

College Website (CCET) (07/2017 - 06/2019)

- Built and maintained the **Official College Website** using **HTML, CSS, and PHP**, providing a responsive and user-friendly interface.
- Identified and fixed **critical security vulnerabilities** such as **SQL Injection & XSS**, enhancing website security.

Pet Projects (08/2018 - Present)

- Regularly build projects for **personal learning**, exploring topics like **handling multiple Angular dialogs**, custom autocomplete components and **UI elements**.
- Find my projects on [GitHub](#) and read my articles on [Medium](#).

INTERESTS

Web Performance Optimization

System Design

UI/UX Trends

Clean Code

Scalable Architecture

LANGUAGES

English

Full Professional Proficiency

Hindi

Full Professional Proficiency