

VIVEK KUMAR GUPTA

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Education

University of Mumbai, India

Bachelor of Engineering in Computer Engineering - CGPA 9.57

August 2020 – May 2023

Technical Skills

Languages: JavaScript (ES6+), Typescript, Python, C++, HTML5, CSS3

Frontend Frameworks & Libraries: React.js, Next.js, node.js, express.js, Redux Toolkit, Context API, Tailwind CSS, GSAP, Three.js, Flask

UI/UX & Performance: Client-side & server-side rendering (SSR), Web performance optimization, accessibility(a11y)

Databases & Cloud: PostgreSQL, MySQL, MongoDB

Authentication & Security: Clerk, NextAuth, JWT-based Authentication

Tools & Platforms: Git, Github, Vercel, Netlify, Chrome Extension

Development Tools & CI/CD: Docker, Jenkins, Vercel, Selenium

Work Experience

Front-End Developer, Tata Consultancy Services, Mumbai, India

December 2023 - Current

- Took ownership of frontend architecture across multiple React-based internal applications and independently drove performance optimizations (Redux Toolkit refactoring, memoization, lazy loading, API caching), improving page load and render times by 30-40% without impacting feature delivery timelines.
- Identified a gap in displaying live ZOHO Analytics Plus dashboards on large IT screens and built Scroll Master, a configurable chrome extension designed for reuse across multiple dashboards and multiple teams, eliminating manual effort and ensuring real-time visibility of trends at scale.
- Designed and delivered scalable internal systems including a Stylus Management System to manage styluses used in meeting rooms and Guest House Feedback System to capture structured user feedback, enabling data-driven service improvements for stakeholders.
- Partnered closely with backend and product team to convert ambiguous requirements into accessible, product-ready frontend solutions, while optimizing REST API integrations to reduce data-fetch latency by 20% and improve overall user experience.

Full Stack Developer Intern, Software Complete Solution Tech, Mumbai, India

May 2019 - August 2019

- Built responsive web pages with optimized HTML, CSS, and JavaScript, improving page speed by 15%.
- Conducted usability testing with Selenium, increasing user engagement by 20%.
- Implemented AJAX-based dynamic content loading to improve website responsiveness.

Projects

QuickCart - E-commerce Website ([Live Link](#)) ([Github Link](#))

- Built a secure, full-stack e-commerce application using Next.js and PostgreSQL with Clerk authentication, enabling cart operations only for authenticated users, improving data integrity and user security.
- Designed and optimized state management, reducing unnecessary re-renders and improving cart interaction performance by 30%.
- Developed a responsive, modern UI with Tailwind CSS and reusable components, enhancing usability and achieving 40% faster UI iteration speed.

Coderz AI Powered Online Code Editor ([Live Link](#)) ([Github Link](#))

- Developed an online code editor and compiler supporting multiple languages using Piston API, enabling real-time code execution with custom inputs.
- Integrated GPT-4-powered AI assistance for code suggestions and debugging, reducing manual effort by 35% for users.
- Implemented real-time collaborative editing (Socket.io) & OAuth authentication (NextAuth), enabling multi-user coding sessions.

Scroll Master - Chrome Extension ([Chrome Web Store](#))

- Built a custom chrome Extension to automatically scroll dashboards, switch tabs, and reload pages solving a real-world analytics presentation problem with no existing vendor solution.
- Delivered a zero-cost, local-only solution(no external APIs or servers), ensuring data security compliance and easy IT approval.
- Received direct client appreciation for improving large-screen dashboard visibility and elimination of manual intervention during live analytics monitoring.

Conferences & Hackathons

AI Meeting Scheduling Agent ([Github Link](#)) AMD AI Hackathon

2025

- Built a scalable Flask (Python) backend to extract user availability by integrating Google Calendar API.
- Implemented an agentic LLM workflow using LangGraph and used Meta-Llama-3.1 as a model to optimize meeting scheduling and resolve conflicts of unavailability.

GoldRatePune - Blogging Website ([Live Link](#))

2023

- Built and optimized a website showing live gold price, achieving 100k+ monthly impressions on Google through keywords, SEO friendly blogs, on-page optimization, and structured content targeting.
- Utilized Google search console (GSC) & Implemented internal linking, and CTR-focused meta tags to improve SERP visibility and organic reach.