

# VIVEK KUMAR GUPTA

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## Education

### University of Mumbai, India

Bachelor of Engineering in Computer Engineering

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), SSG, Web performance optimization, accessibility(a11y)

**Databases & Cloud:** PostgreSQL, MySQL, MongoDB, AWS

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

**Tools & Platforms:** Git, Github, Chrome Extension

**Deployment Tools & CI/CD:** Docker, Jenkins, Vercel, Netlify, Selenium

## Work Experience

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

December 2023 - Current

- Developed and maintained multiple react applications for clients and proposed solutions for real-world problems.
- Optimized React component rendering and state management using Redux toolkit, resulting in 30% faster page load time.
- Integrated and optimized REST API calls using axios, reducing data fetch latency by 20% and improving overall user experience with efficient loading and error handling.
- Owned performance optimization performance through lazy loading, memoization, and API response caching, resulting in 40% faster render times across dashboards used by 300+ users.
- Integrated AI Chatbot in the tool to give simple solutions and for easy navigation via suggested links.

### 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-based authentication, enabling cart operations only for authenticated users, improving data integrity and user security.
- Designed and optimized state management and API workflows, 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 debugging effort by 35% for users.
- Implemented real-time collaborative editing using Socket.io and OAuth-based authentication with NextAuth, enabling secure 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 manual intervention during live analytics monitoring.

## Conferences & Hackathons

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

- 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 High-Traffic website ([Live Link](#))

2023

- Built and optimized a high-intent local SEO page for “Gold Rate Pune”, achieving 100k+ monthly impressions on Google through keywords, SEO friendly blogs, on-page optimization, and structured content targeting.
- Implemented internal linking, and CTR-focused meta tags to improve SERP visibility and organic reach.
- Utilized Google search console (GSC) to check web performance and improved the performance.