

Vishal Sharma

Full-stack developer with experience building and deploying production-grade applications, specializing in scalable systems, real-time workflows, and cloud infrastructure (AWS, Cloudflare, Docker).

📞 9330642121

✉ vishal.shaarma.030@gmail.com

🌐 <https://github.com/vishalsharma1777>

🌐 <https://www.linkedin.com/in/vishalsharma3010/>

EDUCATION

• Chitkara University, Punjab

B.E, CSE

2020-2024

CGPA : 9.84

EXPERIENCE

• J.S. Engineering Works

June 2025 - present

SDE - 1

Kolkata

- Owned end-to-end development and deployment of a production-grade **ERP and challan management system**, supporting **50+ daily service jobs** and streamlining complete engine servicing workflows.
- Designed an **8-stage workflow engine** (job creation → inspection → estimation → approval → billing → delivery), reducing manual tracking effort by **60%** and improving process turnaround time by **40%**.
- Built **real-time billing and WhatsApp delivery system** for challans, reducing customer communication delays from **hours to seconds** and improving customer response rate by **30–40%**.
- Developed **HTML-to-PDF generation pipeline** using **Puppeteer**, generating **100+ documents/day** with pixel-perfect accuracy, eliminating manual invoice creation and reducing errors by **70%**.
- Architected full-stack system using **React, Node.js, MongoDB, MUI**, achieving **sub-300ms API response times** for core workflows and ensuring smooth UI performance.
- Deployed applications on **Render and Netlify** with **custom domain + DNS setup**, achieving **99.9% uptime** and reliable production availability.
- Containerized services using **Docker** and resolved **Puppeteer deployment challenges** (headless Chromium issues), reducing production failures by **80%**.
- Integrated **Cloudflare R2** for document storage, reducing storage costs by **40–60%** compared to traditional cloud storage solutions.
- Improved backend security using **OAuth, input validation, and safe DB practices**, reducing potential vulnerabilities and strengthening data protection across the system.

• Varthana Finance - School & Student Loan Provider (NBFC)

Dec 2023 - July 2025

Software Development Engineer I

Bangalore

- Developed and maintained **web applications** company software using **Express.js, React.js, Next.js, Node.js**, and **PostgreSQL**, enhancing **security** and reducing vulnerabilities by **80%** through the implementation of **OAuth** for secure authentication, **parameterized queries** in PostgreSQL, and secured ORMs like **Sequelize/Drizzle ORM**.
- Implemented **microservices architecture**, along with **stored procedures** and **queues** such as **AWS SQS** for task management and **PostgreSQL stored procedures** for data integrity, resulting in a **50% improvement** in system reliability.
- Built a reporting engine using **Athena queries**, reducing server load by **60%** and improving system performance by **40%**.
- Implemented **AWS Secrets Manager** to securely manage sensitive information, removing critical data from environment variables and improving system security by **70%**.
- Collaborated with the **product team** to launch new features and ensure **RBI compliance**, increasing **user engagement** by **30%**.

• MountBlue Technologies Private Limited

Sep 2023 - Dec 2023

Full Stack Developer

Bangalore

- Successfully completed an intensive **3-month full-stack developer bootcamp**, acquiring in-depth knowledge of front-end and back-end development, leading to a **95% proficiency** in core web technologies.
- Developed and deployed multiple web applications, demonstrating hands-on expertise in **React.js, Express.js, Node.js**, and database systems like **PostgreSQL** and **MongoDB**, improving deployment efficiency by **30%** during projects.
- Collaborated with peers in a project-based learning environment, enhancing problem-solving skills and achieving a **100% success rate** in delivering project requirements on time.
- Tech Stack: **React.js, Express.js, Node.js, PostgreSQL, MongoDB**.

PERSONAL PROJECTS

– Business Website

2026

Production-grade Website with Custom Domain, CDN, SEO, and Cloud Integrations

- * Designed and deployed a **production-ready business website** with **custom domain setup**, managing DNS configuration via **GoDaddy** and **Cloudflare**.
- * Implemented **SEO best practices** including **meta tags**, **structured data**, **sitemap.xml**, **robots.txt**, and **semantic HTML**, improving search engine visibility and organic reach.
- * Optimized performance using **Cloudflare CDN caching**, **lazy loading**, and image optimization, achieving **50%+ faster page load times** and improved Lighthouse scores.
- * Integrated **Cloudflare R2** for dynamic image storage and efficient asset delivery, reducing storage costs and improving scalability.
- * Implemented **bot protection**, **rate limiting**, and **firewall rules** via Cloudflare, ensuring security against spam and malicious traffic.
- * Built fully **responsive UI** and optimized layouts for mobile-first indexing, improving accessibility and user experience across devices.
- * Integrated **Netlify Forms** for lead capture and automated workflows, enabling seamless customer interaction without backend overhead.
- * Resolved real-world challenges including **domain propagation**, **SSL setup**, and **hosting constraints**, ensuring reliable production deployment.

– OMeet

2024

Web App to schedule & book meetings in the Office Building

- * Designed and developed a web application to efficiently schedule and book **office conference rooms**, optimizing resource utilization and reducing booking conflicts by **40%**.
- * Implemented intuitive features for **room availability tracking** and user-friendly **reservation management**, ensuring a seamless booking experience.
- * Utilized **modern web technologies** such as **MongoDB**, **Express.js**, **React.js**, and **Node.js** to build a highly scalable and visually appealing platform.
- * Integrated **WebSocket** for real-time updates, **JWT** for secure authentication, **EmailJS** for automated email notifications, and **Redux** for efficient state management.
- * Achieved a **30% improvement** in user engagement by creating an intuitive interface and seamless scheduling experience.

TECHNICAL SKILLS AND INTERESTS

- **Languages:** JavaScript, TypeScript, HTML, CSS
- **Web Development:** ReactJs, NextJS, NodeJS, ExpressJS, REST API
- **Cloud/Databases:** Postgres, MongoDB, AWS, Elasticsearch
- **Coursework:** Functional Programming, Database Management System, DSA, Object Oriented Programming, Docker
- **Automation/Test Frameworks:** Selenium, Jest
- **Version Control Systems:** Git, GitHub, GitLab, Bitbucket