

VIKRAM SINGH

Full-Stack Developer

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Education

Bharati Vidyapeeth DU College of Engineering, Pune

2022 – 2026

B.Tech in Computer Science and Business Systems

CGPA: **9.03/10.0**

Ajanta Higher Secondary School

2022

Higher Secondary Certificate (PCM)

Score: **95.6%**

Experience

SDE Intern

June 2025 – September 2025

Vartagram

Remote

- Secured a competitive **paid internship** to engineer responsive frontend interfaces using **React.js** and **Next.js**, adopting Progressive Web App (PWA) standards for mobile accessibility.
- Architected scalable backend microservices using **Node.js** and **Express.js**, integrating **PostgreSQL** for efficient data management and retrieval.
- Collaborated in an Agile environment to optimize API response times, resulting in a smoother user experience for enterprise web applications.

Projects

Synapse | *MERN, Socket.io, WebRTC* | [Live Demo](#) | [GitHub](#)

- Developed a high-performance communication platform enabling **sub-100ms latency** instant messaging and HD video conferencing using **WebRTC**.
- Engineered dynamic room management logic via **Socket.io** namespaces and implemented secure **JWT Authentication** for user sessions.
- Designed a **Scalable Architecture** by deploying a decoupled frontend on **Vercel** and backend on **Render**.

Expense Tracker | *MERN, Ant Design, Recharts* | [GitHub](#)

- Built a comprehensive financial dashboard visualizing income/expense trends using **Recharts** and **Ant Design** components.
- Designed robust RESTful APIs in **Node.js** to handle transaction CRUD operations with **MongoDB** aggregation pipelines for statistical analysis.

Scrum Flow | *PHP, MySQL, HTML/CSS* | [GitHub](#)

- Designed a server-side rendered project management tool using **PHP** and **MySQL** to streamline Agile workflows and sprint tracking.
- Implemented relational database schemas for task management and secure user authentication, ensuring data integrity without client-side dependencies.

Technical Skills

Core Concepts: Data Structures & Algorithms (DSA), System Design, OOPS, DBMS, OS

Languages: C++ (STL), JavaScript (ES6+), Python, PHP, SQL, HTML5/CSS3

Frontend: React.js, Next.js, Tailwind CSS, React-Redux, Ant Design, Zustand, Vite, PWA

Backend: Node.js, Express.js, Socket.io, WebRTC, RESTful APIs, JWT

Databases & Cloud: MongoDB, PostgreSQL, MySQL, Vercel, Render

Tools: Git, GitHub, Postman, VS Code

Leadership & Achievements

Deputy Joint Secretary

Aug 2024 – July 2025

CSBS-SA, BVPUCOEP

Pune, India

- Orchestrated 'Bharatiyam' techno-fest and SIH Internal Hackathon, managing logistics for **500+ participants**.

Problem Solving & Awards:

- Won the **College Preliminary Round** in the **Smart India Hackathon (SIH)**, demonstrating strong leadership and rapid problem-solving skills to prototype a scalable solution under time constraints.
- Solved **250+ Algorithmic Problems** across LeetCode, NeetCode, and GeeksForGeeks, maintaining consistency in DSA (Arrays, Graphs, DP).
- Engaged with the developer community by contributing to Open Source documentation in the **React** and **Node.js** ecosystems to improve resource accuracy.
- Winner of 'Zero Errors Zone' technical debugging event; Represented college in inter-departmental cricket.