



# VINAY KUMAR

📞 (+91)9084246255    ✉️ sukhdevvinay9693@gmail.com     <https://www.linkedin.com/in/vinay-kumar-46310935b/>     [github.com/Sukhdevvinay](https://github.com/Sukhdevvinay)

## ABOUT

---

Software Engineering student focused on building reliable backend systems involving concurrency, transactions, and real-time communication using **Node.js**, **Express.js**, **React.js**, and **MongoDB** with a strong foundation in **Data Structures and Algorithms**.

## EDUCATION

---

**Indian Institute of Information Technology, Tiruchirappalli (IIIT)** — Tiruchirappalli, Tamil Nadu  
B.Tech in Electronics and Communication Engineering — CGPA: 8.23 — Aug 2022 – Present

## EXPERIENCE

---

**Full Stack Developer Intern – OneStop Pvt. Ltd. (Remote)** May 2025 – Jul 2025

- Architected and maintained RESTful APIs using Node.js and Express.js to handle expense data processing for the company's internal dashboard.
- Implemented secure authentication using JWT (JSON Web Tokens) and Role-Based Access Control (RBAC) to ensure data privacy for multi-user sessions.
- **Refactored** legacy React components by implementing Memoization and Lazy Loading, reducing page load latency by 30%.

## TECHNICAL SKILLS

---

**Languages:** C++, Python, JavaScript  
**Web Technologies:** Node.js, Express.js, React.js, MySQL, MongoDB, REST APIs, Socket.IO, Chart.js  
**Tools & Platforms:** Git, GitHub, Postman, Render, Vercel.  
**Core Concepts:** Data Structures & Algorithms, Object-Oriented Programming(OOPs), Operating System(OS), Database Management System(DBMS).

## PROJECTS

---

**Secure Peer-to-Peer Digital Wallet** Live Github

- Designed a ledger-based digital wallet application allowing users to send and receive funds securely using Node.js and React.
- Wrote strict server-side validation to prevent negative balance errors and unauthorized injections during requests.
- Secured sensitive data by implementing Bcrypt hashing for user passwords and transaction PINs before storing them in the database.
- Implemented MongoDB ACID Transactions (Sessions) to ensure data integrity, automatically rolling back failed transfers
- **Technologies:** Node.js, Express.js, MongoDB.

**Collaborative Real-Time Text Editor** Github

- Developed a live editing platform where multiple users can edit the same file simultaneously.
- Integrated Socket.IO to broadcast code changes to all connected clients in real-time with less than 100ms latency.
- Created a room-based architecture allowing users to create private coding sessions with unique room IDs.
- **Technologies:** Node.js, Express.js, Socket.IO, MongoDB, Fabric.js.

## ACHIEVEMENTS

---

**LeetCode:** Rating 1800+ in contests, actively participating in problem-solving challenges  
**CodeChef:** Rating 1602+ (3\*), consistently ranked among top performers  
**Codeforces:** Specialist 1405+ consistently ranked among top performers  
**Hackathon Finalist:** Ranked Top 10 among 50+ teams at [Code Battle (IIIT TRICHY) ] (2025).

## ACTIVITIES

---

**Member – Google Developer Student Club (GDSC), IIIT**

- Participated in hackathons and workshops; mentored peers in DSA and web development.