

# Rahul Kumar

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## EDUCATION

### Vellore Institute of Technology

B.Tech - Computer Science and Engineering - **CGPA: 8.65**

2022 – 2026

Bhopal, Madhya Pradesh

## PROJECTS

### CEMS — College Event Management System

MERN Stack, Razorpay, JWT Auth, QR System, Nodemailer, MongoDB Atlas ([GitHub](#)) ([Live Site](#))

- Built a full-stack **event management platform** that automates registrations, approvals, and event tracking for students, organizers, and admins.
- Integrated **Razorpay payments**, **QR-based attendance**, and automated **email workflows** via Nodemailer, reducing manual verification efforts by **80%** for 300+ users.
- Deployed a production-ready backend on **Render** and frontend on **Vercel** with secure **JWT authentication** and scalable performance on **MongoDB Atlas**.

### CompileCV — ATS-Optimized Resume Builder

React 18, Vite, Framer Motion, LaTeX API, Docker, Vercel ([GitHub](#)) ([Live Site](#)) ([Docker Hub](#))

- Developed a modern **ATS-friendly** resume builder with **real-time LaTeX compilation**, instant PDF export, and auto-save, improving user completion speed by **40%**.
- Designed a **modular UI system** with 15+ reusable components and custom hooks (useLatexCompiler, useDebounce, useLocalStorage), enabling maintainable and scalable code.
- Integrated **drag-and-drop** section ordering and responsive UI animations using Framer Motion for an intuitive editing workflow.
- Implemented **Docker multi-stage builds**, reducing container size to **150MB**, and engineered a Vercel + Vite workflow achieving **10–100× faster build times**.

## EXPERIENCE

### Bluestock.in

May 2025 – June 2025

Software Development Engineer (SDE) Intern

Remote, India

- Developed and enhanced production modules using the **MERN stack** (MongoDB, Express.js, React.js, Node.js), contributing features directly to live user-facing systems.
- Implemented and optimized RESTful **API integrations**, improving data flow reliability and reducing response inconsistencies across key platform endpoints.
- Built secure **JWT-based authentication** and contributed to role-based access control workflows, improving authorization safety and backend maintainability.
- Orchestrated collaborative code review sessions that fostered a culture of continuous improvement; resulted in more than 100 code enhancements over six months, elevating overall application performance and maintainability.

## SKILLS

**Programming Languages:** C++, JavaScript, TypeScript, SQL

**Full-Stack Engineering:** React.js, Node.js, Express.js, REST APIs, HTML/CSS, Tailwind CSS, Supabase

**Databases:** MongoDB, PostgreSQL, MySQL, Redis

**DevOps & Cloud:** Docker, Kubernetes, AWS (EC2, S3), Linux, GitHub Actions, CI/CD Pipelines, DigitalOcean

**Tools & Platforms:** Git, GitHub, VS Code, Postman

**Core Subjects:** Object-Oriented Programming (OOP), Data Structures & Algorithms (DSA), Operating Systems (OS), Database Management Systems (DBMS), Computer Networking (CN)

## CERTIFICATIONS & ACHIEVEMENTS

- Completed the **GitHub Foundations Certification** by GitHub, demonstrating proficiency in version control, repositories, branches, and collaboration workflows. [↗ Certificate Link](#)
- Selected as a **Flipkart GRID 7.0 Semifinalist**, recognized for advanced algorithmic thinking, data structures expertise, and system design capabilities among top national participants. [↗](#)
- Received the **Best Student Award** (LIC, 2018) for ranking in the top **1%** academically and demonstrating leadership among **1000+** students.
- Solved **500+ Data Structures & Algorithms problems** across LeetCode and Codeforces, strengthening algorithmic thinking and competitive programming skills. [↗ LeetCode Profile](#)