# Sushant Kumar

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## PROFESSIONAL SUMMARY

Results-driven Computer Science undergrad and Full Stack Developer with practical experience as an SDE Intern at Synapse Technologies. Proven track record of shipping production-ready web applications and optimizing API performance by 25%. Proficient in **JavaScript, TypeScript, Java**, and modern web frameworks, with strong expertise in **AWS Cloud Infrastructure** and **CI/CD** pipelines. Seeking to leverage analytical problem-solving and full-stack engineering skills to build scalable software solutions.

## EDUCATION

**Vellore Institute of Technology**
*Bachelor of Technology in Computer Science and Engineering; CGPA: 8.05*                                    *2022 – 2026*

## TECHNICAL SKILLS

**Languages**: JavaScript (ES6+), TypeScript, Java, Python, C++, SQL
**Frameworks & Libraries**: React.js, Next.js, Node.js, Express.js, TailwindCSS, RESTful APIs
**Cloud & DevOps**: AWS (EC2, Lambda, S3), Docker, Kubernetes, GitHub Actions, Vercel, CI/CD
**Databases & Tools**: PostgreSQL, MongoDB, Redis, MySQL, Git/GitHub, Postman

## EXPERIENCE

**Synapse Technologies**                                                                                 Indore, India
*Software Development Engineer Intern*                                                       *July 2024 – Dec 2024*

- Delivered three production-ready web applications integrated with **PostgreSQL**-backed REST APIs, achieving **25% faster load times** through advanced code-splitting and optimization techniques.
- Designed a scalable real estate platform featuring advanced database indexing strategies, successfully **reducing query response time from 2.1s to 750ms** and significantly enhancing user search experience.
- Devised a high-performance crypto gaming platform with **WebSocket** integration, enabling real-time, low-latency multiplayer functionality for **1,000+ concurrent users**.
- Streamlined deployment workflows by implementing robust **CI/CD pipelines** using GitHub Actions on AWS, maintaining **99.5% production uptime** and ensuring rapid delivery cycles.

## PROJECTS

**LabMate** | *Full Stack, MERN Stack, Payment Gateways (Stripe, Razorpay)*                        GitHub Link

- Developed a comprehensive E-Health platform using the MERN stack, facilitating seamless interaction between 3 distinct user roles (Admin, Doctor, Patient) for appointment booking and management.
- Integrated secure payment gateways (Stripe & Razorpay) to process consultation fees, ensuring 100% transaction reliability and streamlined financial tracking for all appointments.
- Engineered a dynamic slot booking algorithm that monitors real-time doctor availability to prevent overbooking, supporting efficient scheduling for a network of 15+ specialists.
- Streamlined administrative operations by unifying doctor and admin dashboards, resulting in a 60% reduction in manual processing time for appointment cancellations and completions.

**JobConnect** | *React, TypeScript, TailwindCSS, Advanced Filtering, Routing*                        GitHub Link

- Designed a fully responsive job recruitment platform utilizing React and TypeScript, managing dynamic job listings and complex state for an optimal user experience across mobile and desktop devices.
- Implemented advanced search and filtering logic enabling users to refine results by job type, experience level, and salary range (up to Rs. 40L+), drastically improving candidate-job matching accuracy.
- Developed a reusable component library using ShadCN/UI (e.g., JobCard, SearchBar) to ensure design consistency and accelerate new feature deployment speed by 40%.
- Enhanced user engagement by creating a streamlined profile creation flow for applicants to input resume data and preferences, directly boosting application conversion rates.

## LEADERSHIP

**Mozilla Firefox Club** | *Web Development Team*

- Spearheaded the end-to-end design and development of the club's official website, driving a **30% increase** in member engagement and simplifying event registrations through a custom platform.
- Conceptualized and organized a series of technical coding workshops and hackathons, directly resulting in **90% of attendees** reporting increased proficiency in relevant industry tech skills.