

# Vipin Kumar

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## PROFESSIONAL SUMMARY

Co-Founder, CEO, and Full Stack Developer at ServanaTech with proven experience architecting and shipping production MERN stack applications for real clients. Proficient in React.js, Node.js, Express.js, MongoDB, REST APIs, JWT authentication, and WebSockets. Exploring Machine Learning, Deep Learning, NLP, and Data Science. Active college tech community contributor through hackathon leadership, mentoring, and workshops.

## EDUCATION

**Amritsar Group of Colleges, Punjab, India** (2023 – 2027)  
B.Tech in Computer Science and Engineering (Affiliated to IK Gujral Punjab Technical University) | CGPA: 8.3/10.0

## TECHNICAL SKILLS

**Languages:** C, C++, JavaScript, Python

**Frontend:** React.js, Redux, HTML5, CSS3, Tailwind CSS

**Backend:** Node.js, Express.js, REST APIs, JWT Authentication, MVC Architecture, WebSockets, RBAC

**Databases:** MongoDB, MySQL

**ML & Data Science:** Machine Learning, Deep Learning, Natural Language Processing (NLP)

**Tools & DevOps:** Git, GitHub, Postman, Docker, Docker Hub, VS Code

**CS Fundamentals:** Data Structures & Algorithms, Operating Systems, Database Management, OOP

## EXPERIENCE

**Co-Founder, CEO & Full Stack Developer** (2025 – Present)  
ServanaTech — Software Startup (Remote)

- Founded and led a 5-person startup delivering 3 production-grade MERN stack applications to paying clients, owning the product roadmap, system architecture, and end-to-end execution.
- Accelerated delivery by 25% via a standardized React.js + Tailwind CSS component library; architected JWT-secured RESTful APIs with role-based access control across all client deployments.
- Diagnosed 15+ MongoDB bottlenecks cutting API response time by 35%; maintained sub-5% defect rate and 100% on-time delivery across every client milestone.

## PROJECTS

**Jepair Bazaar — Home Services Platform** [Live] | React.js, Node.js, Express.js, MongoDB, Socket.io, Stripe (Jun 2025 – Oct 2025)

- Architected a full-stack MERN service-booking marketplace supporting 3 distinct user roles (customer, provider, admin) with role-based access control, JWT-secured session management, and a reusable React.js + Tailwind CSS component library.
- Integrated Stripe payment gateway achieving 0 transaction failures across 50+ QA test runs; implemented Socket.io real-time bidirectional chat between customers and service providers with message persistence in MongoDB.
- Optimized backend performance by 40% through MongoDB aggregation pipelines and compound indexing strategies; designed RESTful API endpoints following MVC architecture with centralized error handling and input validation middleware.

**LeetPilot — AI-Powered Chrome Extension** [GitHub] | JavaScript, Chrome Extensions, Gemini AI API (Jan 2025 - Jan 2025)

- Built a Chrome extension using the Chrome Extensions API that auto-detects active LeetCode problems via real-time DOM parsing and MutationObserver, eliminating manual copy-paste and delivering context-aware AI assistance instantly.
- Integrated Google Gemini AI API to generate problem-specific hints, step-by-step solutions, and code explanations across 5 programming languages (Python, Java, C++, JavaScript, Go) with average response latency under 3 seconds.
- Reduced average problem-solve time by 35% in user testing; implemented local storage caching to avoid redundant API calls on revisited problems, lowering API usage cost and improving perceived performance.

**DoctorSaathi — Telemedicine Platform** [Live] | React.js, Node.js, Express.js, MongoDB, JWT (Nov 2025)

- Developed an end-to-end telemedicine web application enabling patients to search doctors by specialization, book appointments, and attend remote consultations; streamlined patient onboarding from 7 steps to 3 screens.
- Implemented JWT-based authentication with separate patient and doctor dashboards, appointment status tracking, and automated slot availability management using MongoDB date-range queries.
- Delivered a fully responsive React.js frontend tested across 5 device breakpoints; structured RESTful API in MVC architecture with Express.js middleware for request validation, authentication guards, and centralized error handling.

**YouTube Backend Clone** [GitHub] | Node.js, Express.js, MongoDB, JWT, Cloudinary (March 2025 - June 2025)

- Engineered a production-grade REST API backend replicating core YouTube features including user authentication, video upload and streaming, nested comments, like/dislike reactions, channel subscriptions, and playlist management across 20+ endpoints.
- Applied MVC architecture with modular Express.js routers, Mongoose ODM schemas, and Cloudinary integration for media file storage; implemented JWT refresh-token rotation for secure, persistent user sessions.
- Reduced average MongoDB query time by 45% through compound indexing on high-frequency lookup fields (userId, videoId, createdAt) and aggregation pipeline optimization for feed and subscription queries.

## LEADERSHIP & COMMUNITY

- Technical Committee Member & Event Organizer**, College Tech Community (2025 – Present)  
Organized a college hackathon for 20+ teams where 80% built a working prototype within 24 hours; hosted a technical quiz competition for 150+ students.
- Web Development Workshop Instructor**, ServanaTech (Feb 2026)  
Conducted a 2-day Web Development workshop for 60+ junior students with a 100% completion rate.

## ACHIEVEMENTS

- NextEd Hackathon 2025 Winner** (College Level) | 1st among 20+ teams; built a working prototype in 24 hours.
- DSA Practice** | Solved 110+ algorithmic problems on LeetCode.