Vivek Kumar

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SUMMARY

MERN Stack Developer | 2+ Years Experience

Experienced MERN stack developer specializing in building scalable web applications using MongoDB, Express.js, React, and Node.js. Expertise includes designing high-performance RESTful APIs, optimizing MongoDB queries, and implementing secure authentication systems. Successfully resolved complex WebRTC scaling challenges, doubling participant capacity from 150 to 300+ while reducing latency by 30%. Proficient in Docker for containerization . Skilled in serverless architectures with AWS Lambda and strong foundational knowledge in system design, performance optimization, and core computer science principles including Computer Networks, Operating Systems, DBMS, and Data Structures & Algorithms. Committed to writing clean, maintainable code and solving complex engineering problems.

EDUCATION

B.Tech, Computer Science & Engineering	2020 – 2024	7.3 GPA	GLA University	Mathura, India
Intermediate (12th) – 89.2%	2019 – 2020	Army Public School (APS), Yol Cantt	
High School (10th) – 91.6%	2017 – 2018	Army Public School (APS), Sukna Cantt	

TECHONOLOGIES AND SKILLS

- Languages   :JavaScript (ES6+), Dart, Java, SQL
- Frontend Technologies : React.js, Flutter, Redux, React Router, GetX
- Backend Technologies   :Node.js, Express.js, Serverless, WebRTC, WebSockets, REST APIs
- Databases   : MongoDB, MySQL, DynamoDB
- DevOps & Deployment   : Docker, NGINX, Firebase, AWS (Serverless Framework), Netlify
- Tools & Platforms   : VS Code, Android Studio, Postman, Git, GitHub, Figma, Cursor AI

PROJECTS

TourAndTravel | Node.js, Express.js, MongoDB, Razorpay, Pug, Mapbox   07 2023
GitHub: TourAndTravel Project
- Full-stack Travel Management System with secure auth, Razorpay payments, and RESTful APIs.
- Optimized performance via caching, compression, and secure input handling.
- Responsive UI with Pug templates, Mapbox integration, and ESLint/Prettier for code quality.

Ufire | Flutter, Firebase, GetX, Socket.IO
GitHub: Ufire Chat App
- Scalable group chat app with Firebase, Socket.IO, and GetX state management.
- Responsive UI; future upgrades include 1:1 chats and media sharing.

Conferencing App | HTML5, CSS3, JavaScript (ES6), WebRTC
GitHub: Conferencing App
- Peer-to-peer video platform using WebRTC with private IPs for low latency.
- Minimal UI with semantic HTML5/CSS3; no STUN/TURN server dependency.

Experience

Instave (Peoplelink) | Sep 2023 – Present | Hi-Tech City, India

- Developed and optimized video conferencing solutions using WebRTC and WebSockets, addressing SFU auto-scaling and participant scaling issues, increasing capacity from 150 to 300+ users while reducing latency by 30%.
- Built a generic video-conferencing SDK to streamline integration across projects.
- Collaborated with UI teams to design and implement modern UI components using JavaScript (ES6+).
- Enhanced system reliability by containerizing services with Docker, improving deployment consistency.
- Contributed to real-time communication features, ensuring low-latency performance for large-scale interactions.
- Built a dynamic SMS and email sending module which can be configured with any kind and type of credentials from any provider

CERTIFICATIONS

- JOVAC Web Development Certification and Bootcamp. (HTML,CSS,JS)
- Node.js, Express, MongoDB Bootcamp (Udemy) - Mastered building RESTful APIs with Node.js/Express, MongoDB CRUD operations, and authentication (JWT).
- Complete Web Development & DevOps Cohort (ClassX) - Comprehensive training in full-stack development (MERN) and DevOps fundamentals including CI/CD pipelines.