Sumit Kumar Garsa

Software Development Engineer | Full Stack Developer

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Professional Summary

Dynamic Full-Stack Software Developer with 3+ years of hands-on experience in designing and developing secure, scalable web applications using React.js, Node.js, JavaScript, TypeScript, Python, and cloud technologies. Proven expertise in MERN stack development, real-time systems, RESTful APIs, and database management. Strong foundation in computer science principles including Data Structures, Algorithms, and System Design. Experience with AWS, Google Cloud Platform, Docker, Kubernetes, and DevOps practices. Skilled in collaborative development, problem-solving, and delivering high-performance, user-centric solutions.

Technical Skills

Programming Languages: JavaScript, TypeScript, Python, Java, C++, SQL, Kotlin, Dart, HTML5, CSS3

Frontend Development: React.js, Next.js, Vue.js, Redux, HTML5, CSS3, SASS, SCSS, Boot strap, Tailwind CSS, Material-UI, jQuery, Responsive Design, Cross-browser Compatibility

Backend Development: Node.js, Express.js, Django, Flask, Spring Boot, RESTful APIs, GraphQL, WebSocket, Microservices Architecture, Server-side Development

Mobile Development: Flutter, Kotlin, Android Development, Cross-platform Development

Database: MongoDB, MySQL, PostgreSQL, Firebase Firestore, Redis, DynamoDB, SQLite, Database Design, Query Optimization

Cloud Technologies: Google Cloud Platform (GCP), Microsoft Azure, Cloud Architecture, Serverless Computing

Development Tools: Visual Studio Code, IntelliJ IDEA, Postman, npm, webpack

Security: Cybersecurity, OAuth, JWT Authentication, Firebase Authentication, Web Security, Ethical Hacking

Design Tool: Adobe Premiere Pro, After Effects, Photoshop, DaVinci Resolve, UI/UX Design

Education

Bachelor of Technology in Computer Science Engineering

Vellore Institute of Technology (VIT)

CGPA: 7.5/10.0 || August 2021- July 2025

Relevant Coursework: Data Structures and Algorithms, Operating Systems, Computer Architecture, Database Management Systems, Software Engineering, Object-Oriented Programming, Computer Networks, Cloud Computing, Machine Learning, Cybersecurity

Professional Experience

Software Development Engineer | Technical Lead

VIT Student Organizations, Vellore, Tamil Nadu | August 2021- Present

- Led cross-functional development teams of 8+ software engineers and developers across multiple full stack web development projects, resulting in 40% improvement in project delivery time and code quality
- Architected, designed, and developed 5+ scalable web applications using React.js, Node.js, Express.js, MongoDB, and cloud technologies, serving 1000+ active users
- Implemented automated CI/CD pipelines using GitHub Actions and Docker, reducing deployment time by 60% and improving development workflow efficiency • Mentored 15+ junior developers in JavaScript, TypeScript, React.js, Node.js, and software engineering best practices through code reviews and technical workshops
- Collaborated with product managers, UI/UX designers, and marketing teams to deliver user-centric solutions and improve customer satisfaction by 35%

- Established coding standards, conducted technical code reviews, and created comprehensive technical documentation for development teams
- Managed project timelines, sprint planning, and agile development processes using Scrum methodology Graphic Designer | Video Editor | Content Creator VIT Clubs (Insights Club, D2C Igniters Club, E-Cell), Vellore | August 2021- January 2025
- Led creative design projects and coordinated with cross-functional teams to produce visual content for events, social media platforms, and marketing campaigns
- Developed video tutorials, promotional content, and educational materials for online platforms including YouTube and Instagram
- Utilized Adobe Creative Suite (Premiere Pro, After Effects, Photoshop) and DaVinci Resolve for pro fissional video editing and graphic design
- Managed multiple creative projects simultaneously while meeting tight deadlines and maintaining high quality standards

Projects

Real-Time Collaborative Code Editor

Technologies: React.js, Node.js, Express.js, WebSocket, MongoDB, JavaScript, HTML5, CSS3   **GitHub: [GitHub Link](#)**

Developed and deployed a real-time collaborative coding platform supporting 50+ concurrent users with WebSocket architecture and live code synchronization • Implemented advanced features including syntax highlighting, multi-user editing, session management, user authentication, and real-time chat functionality • Built scalable backend API using Node.js, Express.js with MongoDB database for data persistence and user management • Integrated JWT token-based authentication system and session management for secure user access and data protection • Achieved 99.9% uptime with optimized WebSocket connections, error handling, and performance monitoring • Improved collaborative workflows for development teams and coding education platforms.

Custom Code Editor with Integrated Compiler

Technologies: React.js, CodeMirror, Judge0 API, RESTful APIs, JavaScript, HTML5, CSS3   **GitHub: [GitHub Link](#)**

Built a comprehensive desktop code editor supporting 10+ programming languages with real-time compilation and code execution capabilities • Integrated Judge0 API for secure code execution and implemented custom test case evaluation system for automated testing • Developed advanced IDE features including intelligent auto-completion, bracket matching, custom themes, syntax highlighting, and code formatting • Implemented robust RESTful API integration for seamless code compilation, result processing, and error handling • Optimized application performance achieving 2x faster load times and improved user experience compared to existing solutions • Enhanced productivity for developers and students through intuitive user interface and comprehensive debugging tools

Smart Cab Booking System

Technologies: Next.js, TypeScript, Mapbox API, Stripe API, Tailwind CSS, React.js   **GitHub: [GitHub Link](#)**

Designed and developed a comprehensive end-to-end cab booking platform with real-time GPS tracking, route optimization, and secure payment processing • Integrated Mapbox API for advanced mapping functionality, route optimization, fare estimation with 95% accuracy, and real-time location tracking • Implemented Stripe payment gateway for secure payment processing, transaction management, and financial data handling • Built responsive web application using Next.js, TypeScript, and Tailwind CSS supporting mobile and desktop platforms with cross-browser compatibility • Developed user dashboard with booking history, trip analytics, data visualization, and customer support features • Enabled efficient on-demand transportation services for users with improved booking experience and operational efficiency.

Certifications

- **Google Cloud Associate Cloud Engineer- Google Cloud Platform (GCP)**
- **Certified Ethical Hacker (CEH)- EC-Council**
- **Complete Web Developer Bootcamp- Udemy**
- **JavaScript Algorithms and Data Structures- FreeCodeCamp**
- **React Developer Certification- Meta (Facebook)**

Achievements

- Competitive Programming: Active competitive programmer with 500+ problems solved on Leet Code, Hacker Rank.
- Hackathon Participation: Regular participant in national-level hackathons and coding competitions with multiple top-10 finishes.
- OpenSource Contributions: Contributing developer with 20+ contributions to popular open-source GitHub repositories and projects
- Technical Leadership: Led technical workshops on React.js, Node.js, and full-stack development for 200+ students and developers.
- Academic Recognition: Recipient of Best Technical Project Award at VIT Annual Technical Fest 2024.
- Problem Solving: Strong analytical and problem-solving skills demonstrated through consistent per formance in coding challenges.