

# Vicky Kumar

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## SUMMARY

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Full-Stack Engineer with nearly 9 years of experience building scalable web applications that serve millions of users worldwide. Proven expertise in modern front-end development with React and TypeScript, cloud-native architecture, and integrating AI capabilities into developer tools. Strong track record of leading technical initiatives from concept to production, optimizing performance at scale, and mentoring engineering teams to deliver high-impact products for enterprise and government sectors.

## TECHNICAL EXPERTISE

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**Front-End:** JavaScript (ES6+), TypeScript, React, Redux, HTML5, CSS3, SASS, Responsive Design  
**Back-End & APIs:** Node.js, RESTful Services, Microservices Architecture, VS Code/Theia Extension APIs  
**Testing & Quality:** React Testing Library, Playwright, Jest, End-to-End Testing, Test-Driven Development  
**Infrastructure:** Docker, Kubernetes, Jenkins, CI/CD Pipelines, Git, Azure DevOps, Performance Optimization  
**Emerging Tech:** Large Language Model Integration, AI-Powered Developer Tools, Cloud-Native Architecture

## PROFESSIONAL EXPERIENCE

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### Associate Staff Engineer

November 2022 – Present

*Nagarro Software Pvt Ltd*

*Noida, India*

- Architected and deployed cloud-native Integration Studio as the sole full-stack engineer, successfully modernizing a complex legacy desktop application into a sophisticated browser-based development environment using VS Code and Theia IDE frameworks, now used daily by hundreds of developers across the organization
- Pioneered integration of Large Language Model capabilities to enable intelligent code suggestions and automated workflow generation, creating innovative AI-assisted development features that measurably improved team productivity and reduced repetitive coding tasks across the development lifecycle
- Established complete DevOps infrastructure including Docker containerization, Jenkins CI/CD pipelines, and comprehensive end-to-end testing strategy with Playwright framework, enabling reliable zero-downtime deployments while maintaining high system reliability
- Designed and implemented scalable microservices architecture handling thousands of daily API requests with optimized caching strategies and response times, consistently maintaining excellent performance under production load

### Lead Software Developer

August 2019 – November 2022

*Capgemini Technology Services India Limited*

*India*

- Led front-end architecture for a major government website serving millions of citizens daily, achieving exceptional Lighthouse performance scores through advanced optimization techniques including code splitting, lazy loading, progressive web app implementation, and strategic caching while ensuring full accessibility compliance
- Managed a cross-functional team of 10 engineers to successfully deliver an enterprise cloud storage product from initial concept through production launch, implementing a robust React-Redux-TypeScript architecture that efficiently handles massive concurrent user loads and large-scale data management operations
- Drove significant performance improvements across multiple client applications, substantially reducing page load times through intelligent bundle optimization, image compression, and strategic caching implementation while maintaining seamless user experiences across all platforms
- Created comprehensive component library with extensive reusable UI components, establishing front-end coding standards and best practices that accelerated development velocity across multiple projects while ensuring consistent, high-quality user experiences

### Software Developer

June 2016 – March 2019

*HISP India*

*India*

- Contributed to DHIS2, a global open-source health information platform deployed across over 70 countries, developing responsive data visualization dashboards that process millions of health records daily and support critical healthcare decision-making for international health systems
- Built and launched Doctor Diary application for thousands of medical professionals across multiple states, implementing real-time data synchronization and offline-first capabilities that significantly streamlined patient data entry workflows and improved healthcare delivery efficiency
- Implemented mobile-first responsive design patterns ensuring seamless user experiences across all devices and browsers, while optimizing render performance for data-intensive health dashboards through virtualization techniques and efficient state management strategies

NOTABLE ACHIEVEMENTS

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- Led complete modernization of enterprise development platform from desktop to cloud, pioneering integration of cutting-edge AI capabilities that fundamentally transformed how developers interact with the system and significantly improved overall productivity across the engineering organization
- Delivered high-performance government web application serving millions of daily users with exceptional optimization scores, demonstrating strong ability to build scalable, reliable solutions for mission-critical public sector infrastructure and large-scale citizen-facing services
- Contributed to globally-deployed open-source healthcare platform used in over 70 countries, directly impacting healthcare systems worldwide and showcasing expertise in building reliable, large-scale applications that serve diverse international user bases

EDUCATION

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<b>Bachelor of Computer Applications</b> <i>Amity University</i>	2013 – 2016 <i>Noida, India</i>
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