

HEMANT KUMAR SINGH

Mumbai, India | Open to relocation to Pune | Email | LinkedIn | Portfolio

SOFTWARE ENGINEER

React | Vue.js | TypeScript | JavaScript | Node.js | SaaS & Workflow Systems

PROFESSIONAL SUMMARY

Software Engineer with 5+ years of experience building SaaS products, internal platforms, real-time dashboards, and workflow systems using React, Vue.js, TypeScript, Node.js, Express.js, and MongoDB. Skilled in component architecture, state management, REST API integration, automated testing, and performance optimization. Applies SOLID principles and design patterns within Agile teams, contributing to planning, code reviews, CI/CD, and production delivery.

TECHNICAL SKILLS

Frontend: React, Vue.js, Redux, Next.js, TypeScript, JavaScript (ES6+), HTML5, CSS3, SCSS/SASS, Tailwind CSS, Vite, Webpack

Backend & Data: Node.js, Express.js, RESTful APIs, Socket.IO, WebSockets, authentication, RBAC, MongoDB, PostgreSQL

Testing & DevOps: Jest, Playwright, Cypress, unit, integration and end-to-end testing, Git, GitHub, CI/CD, Docker, AWS, Linux

Engineering & Delivery: SOLID principles, design patterns, component architecture, state management, responsive design, accessibility, cross-browser compatibility, performance optimization, Agile/Scrum, sprint planning, backlog refinement, code reviews, cross-functional collaboration

PROFESSIONAL EXPERIENCE

Lyor | Senior Software Engineer

New Delhi, India | Jan 2026 – Present

- Built an internal operations platform used by 100+ employees across seven departments using React, TypeScript, Node.js, Express.js, MongoDB, Socket.IO, AWS, and Docker.
- Designed the frontend architecture for an enterprise property-investment dashboard, covering modular routing, reusable components, state boundaries, REST APIs, caching, real-time updates, testing, and performance.
- Reduced route-transition time from approximately 650 ms to 45 ms and initial render passes from four to one by optimizing state management, rendering, and routing.
- Owned workflows for attendance, GPS geofencing, QR verification, role-based access control, recurring tasks, real-time updates, and WhatsApp and email notifications.
- Applied SOLID principles and service-layer abstractions while collaborating with product and design teams on sprint planning, backlog refinement, estimation, code reviews, debugging, and releases.

Dublin City University | Teaching Research Assistant, Computer Science

Dublin, Ireland | Sep 2024 – Oct 2025

- Supported computer-science laboratories serving 3,000+ students across JavaScript, React, Python, Git, Linux, automated testing, and software-engineering practices.
- Guided students through debugging, optimization, and testing, and built automated assessment workflows for DCU's Einstein laboratory environment to improve evaluation consistency.

Quantamix Solutions | Full-Stack Engineer, CrawlQ SaaS Product

Remote, Netherlands | Mar 2021 – Apr 2022

- Co-developed CrawlQ, a customer-facing SaaS platform for AI-assisted audience research, buyer personas, and personalized content using React, Redux, Node.js, Python, and REST APIs.
- Built reusable React components and dashboards, separating presentation, state, and API-integration concerns to improve maintainability.
- Integrated asynchronous REST operations with Redux, providing predictable loading, success, and error states across customer workflows.
- Increased automated test coverage from 55% to 88% using Jest and Playwright while contributing to sprint planning, backlog refinement, code reviews, defect triage, and incremental releases.

SeoToWebDesign | Software Developer – Associate Technology II

New Delhi, India | Feb 2018 – Feb 2021

- Delivered 20+ responsive, cross-browser applications using JavaScript (ES6+), HTML5, CSS3/SCSS, REST APIs, and Vue.js on selected projects.
- Built reusable Vue.js components, shared layouts, forms, and data-driven views using component composition and separation of concerns.
- Created reusable UI patterns and a Tailwind CSS design system, reducing implementation time by approximately 35%.
- Integrated REST services and implemented form validation, asynchronous data handling, loading and error states, and browser-specific debugging.
- Optimized Webpack builds through code splitting, lazy loading, minification, caching, and asset optimization, improving Lighthouse performance by approximately 20%–30%.
- Collaborated with designers, backend developers, and stakeholders through Git branching, pull requests, code reviews, and production releases.

SELECTED PROJECT

DCU Digital Twins and Campus Ambassador Chatbot

Insight Research Centre, Dublin City University | Jun 2025 – Aug 2025

- Contributed to a live AI-powered conversational system integrated with DCU's Campus Explorer geospatial digital twin, serving a community of 22,000+ students and staff.
- Designed a structured response-evaluation and stress-testing methodology that reduced measured hallucinations by approximately 83%.
- Curated an auditable campus-data layer to improve answer reliability, source traceability, and stakeholder confidence.

Technologies: Applied AI, AI reliability evaluation, data governance, digital twins, conversational systems

EDUCATION

Master's in Computing, Artificial Intelligence

Dublin City University, Dublin, Ireland | Sep 2022 – Aug 2023

Relevant study: Artificial intelligence, machine learning, data analytics, data management, and visualization

B.Tech. in Computer Science

BK Birla Institute of Engineering and Technology, Rajasthan, India | Aug 2013 – Jun 2017