

# VISHAL SHITOLE

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## PROFESSIONAL SUMMARY

Software Developer with 2.2 years of experience building full-stack web and mobile applications across healthcare, education, HRMS, and cybersecurity domains. Expert in React.js, Next.js, Node.js, and React Native with CI/CD automation and GitHub Actions. Proven track record of optimizing applications for 200+ concurrent users, reducing load times by 50%, and delivering scalable solutions from frontend to backend with database design and API development.

## TECHNICAL SKILLS

**Frontend:** React.js, Next.js, TypeScript, JavaScript, React Native, Redux, Context API, Tailwind CSS, HTML5, CSS3, PWA, Webpack, Vite

**Backend:** Node.js, Express.js, RESTful APIs, MongoDB, PostgreSQL, Supabase, Firebase

**DevOps & Tools:** Git, GitHub, CI/CD, GitHub Actions, Vercel, Jest, ESLint, Prettier

**Other:** Performance Optimization, Code Review

## PROFESSIONAL EXPERIENCE

### Frontend Developer | loweb3

Oct 2024 - Present

- Developed high-performance frontend applications using React.js, Next.js, and TypeScript, optimizing for 1000+ concurrent users with 99.9% uptime and sub-2-second page load times through code-splitting and performance tuning
- Implemented CI/CD pipelines using GitHub Actions for automated testing, builds, and deployments to Vercel, reducing deployment cycles by 60% with zero-downtime releases and automated rollback capabilities
- Built scalable, reusable component library with TypeScript, Material UI and Shadcn, establishing design system standards that improved team development velocity and code consistency by 30%
- Optimized React applications using lazy loading, memoization, virtual scrolling, and bundle analysis, reducing bundle size by 40% and significantly improving Core Web Vitals scores

**Key Projects:** University Management System (Next.js, TypeScript, student portal, faculty management, course scheduling, attendance tracking) | CourseFinder Platform (React.js, search algorithms, filtering, course comparison) | Application Portal (Next.js, multi-step forms, document uploads, application tracking, admin dashboard)

### Software Developer | AppyStack Pvt Ltd.

Jan 2024 - Oct 2024

- Architected full-stack web and mobile applications using React.js, React Native, Node.js, Express, and PostgreSQL, delivering end-to-end solutions across multiple domains including HRMS, healthcare, cybersecurity, and e-learning
- Designed and implemented RESTful APIs with Node.js/Express featuring JWT authentication, role-based access control, input validation, rate limiting, and comprehensive error handling with logging
- Built cross-platform mobile applications with React Native, implementing offline-first architecture, local storage (AsyncStorage), background sync, push notifications (Firebase), and deep linking for seamless UX
- Optimized database queries with indexing and aggregation pipelines, reducing API response times by 40% and improving overall system performance under high traffic

**Key Projects:** HRMS Web & Android App (React.js, React Native, Node.js, employee management, attendance, payroll, leave management) | Cybersecurity Web App (React.js, threat detection dashboard, security analytics, real-time alerts) | Healthcare Web App (Next.js, patient management, appointment scheduling, medical records) | LMS System (React.js, course management, student portal, progress tracking, assignments, quizzes)

## PERSONAL PROJECTS

### FormPilot - Full-Stack SaaS Platform | Next.js, TypeScript, Node.js, PostgreSQL, Redis, GitHub Actions, Vercel | [Link](#)

- Built enterprise-ready form management SaaS handling 100+ daily submissions. Features: Next.js frontend with SSR, Node.js/Express RESTful APIs, PostgreSQL with optimized schemas and indexes, Redis for caching and rate limiting, JWT authentication with refresh tokens, webhook integration system, spam detection algorithms, automated email notifications (SendGrid), real-time analytics dashboard with charts, and complete CI/CD pipeline with automated testing and zero-downtime deployments.

### EnvShare - Secure File Sharing Platform | Next.js, TypeScript, MongoDB, Upstash Redis, JWT, Tailwind CSS | [Link](#)

- Developed secure platform for sharing sensitive environment files and configurations. Implemented end-to-end encryption (AES-256), unique access IDs with cryptographic hashing, role-based access control with granular permissions, expiring links with TTL management, comprehensive audit logging for compliance, Upstash Redis for session management and caching, MongoDB for flexible document storage, rate limiting to prevent abuse, HTTPS-only connections with strict CSP headers, and automated security vulnerability scanning in CI/CD pipeline.

### Frontix - NPM Utility Library | TypeScript, Vitest, GitHub Actions, tsup, ESLint, Prettier | [Link](#)

- Published open-source utility library with 25+ helper functions for string manipulation, date formatting, validation, async operations, and deep object operations. Built with TypeScript for complete type safety and IntelliSense support, dual module format (ESM + CJS) for universal compatibility, tree-shaking optimization ensuring minimal bundle impact, 95%+ test coverage with Vitest including edge cases, comprehensive JSDoc documentation, semantic versioning, automated release workflow with GitHub Actions (lint, test, build, publish to NPM), bundle size analysis, and performance benchmarks. MIT licensed with active community support.

## EDUCATION

### Bachelor in Computer Application (BCA) | D.G.C.C. Satara

July 2020 - Aug 2023

CGPA: 8.28/10

### Higher Secondary Certificate (HSC) | D.G.C.C. Satara

Aug 2018 - Aug 2020