# Ashish Shejwal

Software Developer

## Work Experience

### Software Developer @ NovaTekno Systems

**Mobile & Web (PWA) App Development for Embedded Medical Device**

- Played a pivotal role in React Native application with multiple flavors, each supporting various environments. Implemented device storage detection to optimize space usage and PDF report generation for test results using mobx. Fixed critical UI bugs and improved app stability using React Native Testing Library

- Architected a real-time dashboard using D3.js to visualize medical data (heatmaps, time-series graphs). Led Agile planning, breaking down features into granular tickets (including tech stack decisions and task prioritization). Configured a TypeScript-based web app using Vite, enforcing code quality with ESLint, Prettier, and Husky pre-commit hooks. Reduced technical debt by refactoring code into reusable components and dynamic modules.

- Spearheaded the React Native-to-PWA migration to enhance cross-device compatibility. Reverse-engineered Python-based AES-CBC/SHA-256 authentication logic and ported it to Web Crypto API for secure device communication. Designed a hybrid architecture using Web Bluetooth API later converted into Python-based local server using Fast API (deployed as a PC executable) to handle Bluetooth operations on iOS.

### Exits Consultancy    Software Engineer

*MAR 2020 - JUN 2023   (3 YEAR 2 MOS )*

Successfully managed multiple projects simultaneously, including:

- EV Charging Dashboards - Developed electric vehicle charging station dashboards with status monitoring, analytics, billing systems, user authentication, and reservation features, boosting infrastructure efficiency.

- Secure File Rendering App -Engineered a secure file rendering application with JWT authentication, GPU/CPU utilization tracking, interactive charts, and a user-friendly file manager UI.

- Booking Platform & Productivity Tools - Developed a web and mobile booking platform for hotels and contributed to productivity tools with Gantt charts, Kanban boards, and billing functionalities, including PDF receipt generation

- E-Commerce Applications - Built and managed e-commerce platforms with React.js, including product listings, shopping carts, order management, search/filter options, and wishlist features.

## Contact

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## Education

### Bsc(CS) @ University of Mumbai
*COMPLETED FY AT*
*JVM MEHTA COLLEGE ( JUNE 2020- 2021 )*

## Skills

- **Languages** - TypeScript  Python
- **WEB APPS** - React, Next.js
- **Mobile Apps** - React Native,
- **Backend** - Express NodeJS Fast API
- **Databases:** MongoDB, PostgreSQL
- **State Management** - Redux Toolkit, MobX, Zustand
- **Communication** - Socket.io, WebRTC
- **Testing** - Vitest, Jest, Cypress, React Native Testing Library
- **Visualization** - D3.js, Chart.js
- **Animation** - Framer Motion

## Tools

- **Operating Systems:** Windows, Linux
- **Linux Distros** - Debian, Arch
- **Cloud** - AWS, Firebase, Vercel
- **Containerization** - Docker
- **Project Management:** Atlassian Clickup
- **Build Tools:** Webpack, Parcel, Vite
- **Version Control:** Git, Github, Bitbucket
- **API Testing:** Postman
- **Package Managers:** NPM, Yarn, PNPM
- **Design:** Figma