



Manik

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ABOUT ME

I am a Frontend Developer with 4+ years of professional experience specializing in architecting, building, and optimizing scalable, responsive web applications. With deep expertise in React.js and modern web technologies, I excel in delivering high-performance user interfaces, ensuring best practices in security, accessibility, and cross-browser compatibility.

I am passionate about creating maintainable codebases, mentoring teams, and staying updated with the latest technologies to drive innovation in product development.

SKILLS

Frontend Development

- **Languages:** TypeScript, JavaScript (ES6+)
- **Frameworks/Libraries:** React.js, Next.js, Redux Toolkit, Zustand
- **Styling:** HTML, CSS, Tailwind CSS
- **Build Tools:** Vite, Webpack, TurboRepo, Babel
- **Version Control:** Git, GitHub, GitLab
- **Testing:** Jest, Cypress, React Testing Library
- **Accessibility:** WCAG Best Practices, ARIA

Backend Development

- **Languages:** Node.js, Python
- **Frameworks/Libraries:** Express.js, Socket.io, Django, FastAPI
- **Databases:** MongoDB, PostgreSQL
- **DevOps & CI/CD:** Docker, GitHub Actions, AWS

PORTFOLIO

<https://manikdevbhagat.github.io>

EDUCATION

Bachelor of Technology | IIT-Bombay (Jul'16 – Jul'20)

- Awarded **Institute Technical Freshmen of the Year** out of around 900 students.

WORK EXPERIENCE

Founding Frontend Developer | Elzo AI (Dec'23 – Present)

- Spearheaded the **frontend architecture** of a dynamic AI-driven web platform using **React.js**, ensuring high scalability and performance **across mobile and web**.
- Designed and developed a pixel-perfect, responsive UI based on complex **Figma** designs using **Tailwind CSS**, adhering to **WCAG accessibility standards**.
- Integrated **JWT-based** authentication, ensuring secure access control.
- Enhanced the product with real-time data synchronization via **web sockets**.
- Implemented **Stripe payment** system and **Mixpanel analytics** to optimize user acquisition and retention strategies.
- Managed frontend deployment and collaboration using **Git** and **Docker**.

Consultant | RELSAFE PRA Consulting (Jul'20 – May'23)

- Led frontend development for multiple internal tools using **React.js** and **TypeScript**, improving UX for real-time risk analysis of critical infrastructure.
- Developed a **VBA-based** tool that improved flood risk analysis efficiency by **80%**.
- Collaborated with cross-functional teams to build a robust **React-based data visualization dashboard** for nuclear plant safety metrics.

R&D Intern | StrautX Technologies (May'19 – Jul'19)

- Developed **predictive models** in Python for solar collector systems and implemented data visualization tools using Matplotlib.

PROJECTS

Healthi-Verse | Web Development Project, (Oct'23)

- Developed a full-featured web platform connecting users with gyms and personal trainers using the **MERN stack**.
- Integrated authentication using **JWT** and real-time chat features via **Socket.io**.
- Leveraged **Redux Toolkit** for state management and improved performance with **lazy loading** techniques.

Mahindra RISE Driverless Car Challenge, (Jun'18 – Jan'19)

- Part of 20-member team, creating India's first driverless car with **level 5 autonomy**.
- One of the **top 11 finalists out of 259 teams**, receiving a Mahindra e2O car.
- Developed **navigation algorithms** utilizing **Google Maps API** and sensor data from **LiDAR**.

ACHIEVEMENTS

Winners – ASME SDC World Finals, USA (Nov'17)

- Achieved **International Rank 1** at ASME-SDC 2017 World Finals, Tampa, USA.
- Collaborated in a 10-member team to construct a versatile bot capable of executing 5 distinct tasks for the competition.
- Led the design and fabrication of the award-winning 'Sprint Mechanism'.
- Implemented **PID Algorithms** on an IMU sensor for precise control.
- Significantly reduced task completion time from **35 seconds to 7 seconds**.