# NARENDRAN VELAGA

Bangalore, Karnataka

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## Education

**Dayananda Sagar College of Engineering**                             Nov. 2022 – Present
*Bachelor of Engineering in Information Science (**CGPA - 8.62**)*        *Bangalore, Karnataka*

**Little Woods School**                                              May 2021 – April 2022
*CBSE – Higher Secondary (Senior School)*                           *Kakinada, Andhra Pradesh*

## About

**Full-Stack Developer** with hands-on experience building responsive web applications using React, Node.js, Express, MongoDB, and SQLite. Developed scalable full-stack projects and contributed to production-grade codebases during an internship. Improved mobile UX based on designs given in Figma, and built real-time features with Socket.IO and JWT authentication.

## Experience

**StackZero**                                                          July 2025 – Present
*Web Development Intern*

- Contributed to resolving front-end bugs in a production-grade React codebase, using Git for version control and effective collaboration within a multi-developer environment.
- Participated in daily Scrum meetings and collaborated closely with team members during Agile sprint cycles to plan, develop, and ship new features under tight deadlines.
- Co-developed **OfficeZero**, a document management system built during a company-wide hackathon, enabling file uploads, internal version tracking, and secure sharing within teams.

## Projects

**AutoCare Hub - Vehicle Maintenance Service** | *Node.js, Express, EJS, SQLite3*          May 2025

- Developed a full-stack web application to book vehicle maintenance services, combining user education, service listings, and a booking system with real-time interaction.
- Built secure user authentication using bcryptjs for password hashing, express-session for session management, and structured user profiles with booking history.
- Implemented MVC architecture with modular routes, controllers, and SQLite models, alongside a responsive EJS-based frontend with collapsible content and reusable components.
- Faced a challenge with maintaining user sessions across multiple service selections — resolved it by carefully managing query parameters and persisting service IDs in the session before form submission.

**Whisper App - Real-time Chat App** | *MongoDB, Express.js, React.js, Node.js, Socket.IO, Tailwind CSS*          July 2025

- Engineered a full-stack real-time chat application using the MERN stack, enabling authenticated users to engage in private and group conversations.
- Integrated Socket.IO for real-time bidirectional communication, handling message delivery, typing indicators, and live chat room updates.
- Designed a responsive, modern UI with Tailwind CSS and React components, including search, chat previews, modals, and toast notifications.
- Faced race conditions in message delivery and user status sync — resolved by implementing client-side state checks and debounced socket events.

## Technical Skills

**Languages**: C, C++, HTML/CSS, JavaScript, EJS, Python
**Databases**: SQL, MongoDB
**Developer Tools**: Git(GitHub, Gitlab), VS Code, Jira, Postman, Vercel, Render
**Libraries & Frameworks**: React, Node.js, Express, REST API, Tailwind CSS

## Extracurricular

- Attended a professional development **Centre for Innovation and Leadership** session focused on enhancing communication skills and preparing for placement interviews.
- Collaborated in a 4-member team to develop a **Test Paper Evaluator** for department teachers, streamlining the evaluation process and significantly boosting grading efficiency through automation and improved workflow.