NARENDRAN VELAGA

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Education

Dayananda Sagar College of Engineering   **Nov. 2022 – Present**
Bachelor of Engineering in Information Science   *Bangalore, Karnataka*

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

About

I'm Narendran Velaga, an engineering student passionate about web development, problem-solving, and creative programming. I have a strong foundation in C/C++, JavaScript, and I enjoy building both functional and interactive web applications. I'm constantly learning and looking for opportunities to contribute to real-world projects, collaborate with experienced developers, and grow into a well-rounded software engineer.

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

Etch-a-Sketch | *HTML, CSS, JavaScript, DOM Manipulation*   **April 2025**
- Built an interactive browser-based sketchpad that dynamically generates a 16×16 grid using JavaScript and Flexbox layout techniques.
- Implemented mouse hover effects that simulate drawing by changing each square's background color in real time.
- Initially struggled with grid alignment and sizing due to border/margin inconsistencies — fixed it by using box-sizing: border-box and calculating square dimensions based on the container width.

Simon Game | *HTML, CSS, JavaScript, jQuery*   **January 2025**
- Developed a web-based version of the classic Simon game, challenging players to recall and repeat growing sequences of colored lights and sounds.
- Integrated keyboard input to start the game and responsive mouse interaction for gameplay, enhancing accessibility.
- Ran into issues with sequence synchronization and button press timing — solved it by using setTimeout() and chaining delays for smooth, sequential visual and audio feedback.

Technical Skills

Languages: C, C++, HTML/CSS, JavaScript
Databases: SQL, MongoDB
Developer Tools: VS Code, Android Studio, Jupyter
Technologies/Frameworks: GitHub, React, Express

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.