ARNAV DALAI

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ABOUT ME

I'm a Developer who genuinely loves building cool things, from web apps to clever Python and C++ programs! For the web, I craft engaging experiences with React.js front-ends and robust Express.js back-ends. Beyond web, I dive into Python and C++ for diverse projects. My goal is to create efficient, user-friendly, and genuinely smart applications that just work and bring a smile.

TECHNICAL SKILLS

- **Languages**: Python, JavaScript (ES6+), C++, C, HTML5, CSS3
- **Frameworks/Libraries**: React.js, Express.js, Node.js, MongoDB
- **Development Tools & Concepts**: Git, GitHub, RESTful APIs, npm, Web Scraping, Multi-threading, Automation, Responsive Design, UI/UX Principles

PROJECTS

MouseShifter (C++ VSC2019)   **Oct 2025 - Present**

- Developed a utility that converts mouse movements into a virtual H-pattern gear shifter for racing sims.
- Integrated the vJoy driver to ensure broad game compatibility and reliable virtual input mapping.
- Designed a customizable on-screen overlay and configuration system for a personalized user shifting experience.
- Enabled simultaneous mouse steering and shifting by implementing non-blocking input hooks for seamless in-game control.

Full-Stack Shoe Web App (React, Express, Local DB)   **Sept 2024 - Present**

- Built the front-end using React.js with a clean design for easy Browse and a smooth user experience.
- Created the back-end API with Express.js to handle product data and user actions.
- Managed product, cart, and order data by storing it locally in a database.

MomentClock   **Feb 2023 - Dec 2023**

- Developed a responsive React.js front-end that dynamically displays real-time metrics and historical facts with an intuitive, minimalist UI.
- Implemented instantaneous calculations for time-based data, ensuring an engaging and seamless user experience across all devices.

EDUCATION

Vellore Institute of Technology Bhopal
- CGPA: 8.00/10.0
- Foundation in Computer Science fundamentals.

Delhi Public School
- 12th- PCM

ADDITIONAL INFORMATION

- **Languages:** English, Hindi.
- **Certifications:** I-Medita Cisco (CCNA), AWS Certified Cloud Practitioner, MongoDB, Fundamentals of AI and ML Vityarthi, NPTEL