

# Vikram Ramji Iyer

Frontend Developer | React | Vanilla JavaScript

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## PROJECTS

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### MacOS Portfolio (V-OS) | *React, Vite, SCSS*

[Live Demo](#)

- Built a browser-based desktop OS simulation supporting multi-window multitasking, focus management, and dynamic Z-index stacking using React Context.
- Designed a reusable window framework with drag, resize, and snap behavior using react-rnd, enabling native-like interactions across all applications.
- Implemented a custom CLI emulator with command parsing and registry-based routing to trigger system actions programmatically.
- Developed a responsive Dock with SCSS modules, emphasizing smooth hover states and visual polish with Glass-Morphism UI.
- Built a modular application architecture where each "app" (Terminal, Notes, Spotify) functions as an independent component, allowing for scalable feature addition.

### Figma-Style Visual Editor | *Vanilla JavaScript, HTML5, CSS3*

[Live Demo](#)

- Engineered a browser-based vector graphics editor using Vanilla JavaScript, implementing a custom DOM-based rendering engine to manage element lifecycles without external frameworks.
- Architected a manual physics and transformation engine, calculating vector deltas and coordinate systems from scratch to handle complex element resizing and drag-and-drop interactions.
- Developed complex interaction systems including 8-point resizing, rotational transforms, and drag-and-drop layer reordering, utilizing manual coordinate calculations and event delegation.
- Architected a bi-directional state management system with localStorage persistence and built a custom export engine to compile design state into downloadable JSON and static HTML files.

### Productivity Dashboard | *JavaScript (ES6+), SCSS, REST APIs*

[Live Demo](#)

- Developed a feature-rich personal dashboard integrating Weather and Quotes API via async/await for real-time data visualization.
- Engineered a persistent task management system using localStorage, enabling users to perform CRUD operations on tasks and habits with state preservation across sessions.
- Built a Daily Planner
- Implemented a custom Pomodoro timer and habit tracking logic using Vanilla JS Date objects and intervals, optimizing for browser performance and battery life.

## TECHNICAL SKILLS

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**Languages:** JavaScript (ES6+), Typescript, HTML5, CSS3, SCSS/Sass, Python

**Frontend:** React.js, Next.js, Tanstack Query, ContextAPI, TailwindCSS, ShadcnUI

**Backend:** Node.js, Express.js, MongoDB, PostgreSQL, BetterAuth

**Developer Tools:** Git, GitHub, VS Code, Chrome DevTools, ESLint

## EDUCATION

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**Loyola Academy**

*Bachelor of Science in Computer Science and Artificial Intelligence*

Secunderabad, India

2022 – 2025