SASTHA RUBAN U

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EDUCATION

MOHAMED SATHAK ENGINEERING COLLEGE	Kilakarai,TN
Bachelor of Engineering in Computer Science Engineering	Expected June 2026

Major in Computer Science

Cumulative GPA: 8.13/10; 2022-2026

Relevant Coursework: DSA, Operating Systems, Compiler Design

SKILLS

System & Virtualization: GNU/Linux | VirtualBox

Programming & Scripting: C/C++ | Bash | Python | Git

Web & App Development: React Native | Expo | JavaScript | Android Studio

Networking & Security: TCP/IP | Wireshark | Nmap | Subnetting

TECHNICAL PROJECTS

MiniC Compiler | GitHub | C11/POSIX   June 2025

Type: Self-directed compiler project (120 hours)

Technical Implementation:

- Parsing: Recursive descent with Pratt precedence (*/ > +-)
- Symbol Table: Hash-based O (1) variable lookup
- Error Handling: Line/column-aware diagnostics
- Validation: Syntax error diagnostic

Core Skills Demonstrated:

- Compiler Construction: Lex → Parse → AST → Eval
- Systems Programming: POSIX, Memory Management
- Debugging: GDB, AST Visualizations

VT340 Terminal Portfolio | GitHub | JavaScript/HTML5/CSS   June 2025
                                                                       Updated

Technical Implementation:

- Terminal Emulation: DEC VT340-style interface with CRT effects (scanlines, phosphor glow)
- Interactive Commands: Bash-like navigation (history, autocomplete, interrupts)
- Dynamic Rendering: HTML5 Canvas + CSS filters for authentic CRT simulation
- Theming System: Green/Amber/Blue/Mono modes with live switching (theme [color])

Core Skills Demonstrated:

- Frontend Engineering: DOM manipulation, event-driven UI
- Nostalgic Design: Pixel-perfect retro aesthetics with modern web tech
- Debugging: Chrome DevTools for animation timing/rendering
- Tooling: ESLint, GitHub Pages deployment

 Live Demo: https://gappyjosuke.github.io/Retro-Portfolio/