

VIJU SANJAI

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EDUCATION

Vellore Institute of Technology

Bachelor of Technology in Electronics and Communication (GPA: 8.16)

Chennai, TN

Aug 2023 – Present

TECHNICAL SKILLS

Languages: JavaScript/TypeScript, Python, C#, Java, SQL, HTML/CSS, Rust, C/C++

Frameworks: React, Next.js, Express, Hono, Vite, Tauri, .NET, Flask

Cloud & Tools: Cloudflare (R2, Edge), AWS, Supabase, Git, Docker, Vercel, VS Code, Figma

Concepts/Areas: Full-Stack Development, REST APIs, Browser WebStorage, Agile/SDLC, UI/UX

EXPERIENCE

Lagoon Technologies

Software Development Intern

Chennai, TN

Sep 2024 – Feb 2025

- Engineered and optimized internal enterprise software tools utilizing **C# and the .NET framework** within an Agile environment.
- Conducted exploratory and architectural analysis of legacy systems, identifying structural bottlenecks to improve maintainability and accelerate release cycles.
- Collaborated in daily SDLC cross-functional discussions to align software architecture with enterprise requirements.

TECHNICAL PROJECTS

Dot Mark (Local-First PDF Editor) | JavaScript, Web APIs, DOM, WebStorage

Mar 2025 – Present

- Engineered a zero-backend web-based PDF editor leveraging the modern **File System Access API** to securely read, traverse, and handle local file directories.
- Implemented a non-destructive highlighting system by serializing and storing annotation coordinates in **Web Storage**, completely preserving original file integrity.
- Built on-demand file mutation capabilities, enabling users to programmatically overwrite the original local PDF with embedded annotations via secure browser permissions.

Share (Real-Time Storage Platform) | TypeScript, Vite, Hono, Cloudflare R2

Oct 2024 – Present

- Developed a scalable, real-time file-sharing platform featuring seamless in-browser previews for PDFs, text, and video codecs.
- Architected a globally distributed backend using **Cloudflare R2** for low-latency, scalable object storage.
- Built robust, edge-optimized routing APIs using **Hono** and **TypeScript**, ensuring high reliability and rapid deployment across the network edge.

Firmware Signer Desktop UI | React, Vite, TypeScript, Tauri, Rust

Jun 2024 – Present

- Architected a cross-platform desktop application using **React, TypeScript, and Vite**, wrapped in **Tauri** for native-level performance and low memory overhead.
- Designed a responsive user interface for managing cryptographic keys and digital signatures, bridging the web frontend with a high-performance Rust backend via Tauri IPC.

LEADERSHIP & COMMUNITY

- **Google Developers Club:** Led front-end development for the campus portal UI enhancements; facilitated web technology workshops and promoted open source via hackathons.
- **Code Chef Developer:** Built and maintained a competitive-programming resource platform utilizing **Express.js** and **Cloudflare** for scalable backend services.