

MANJU MADHAV V A

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EDUCATION

PES Institute of Technology and Management

Bachelor of Engineering in Computer Science and Design

Shivamogga, Karnataka

Dec. 2022 – July 2026

- Cumulative GPA: 8.3/10.0
- Relevant Coursework: UX & UI Design; Data Structures & Algorithms; AI, ML; Object-Oriented Programming
- Interests: Web development, UI/UX design

EXPERIENCE

PaperPeak

Freelance Full-Stack Developer

Remote

May 2025 – Sept. 2025

- Built a production Next.js platform to replace WhatsApp-based order handling, connecting students with verified writers via an order-tracking dashboard utilizing local caching to minimize network requests and improve load times.
- Integrated AWS S3 using presigned URLs to enable secure, large-file uploads directly from the client, reducing server-side processing overhead and preventing request timeouts.
- Technologies: Next.js, Firebase, TypeScript, AWS S3, Tailwind CSS, Razorpay API, Shadcn/UI, Vercel
- Production: paperpeak.vercel.app

PROJECTS

Syncova – AI-Driven Project Coordination Platform | Academic Project

May 2025 – Nov. 2025

- Implemented a workload distribution engine using the Hungarian algorithm for mathematically optimal resource allocation, paired with a Greedy strategy for real-time task reassignment.
- Built a multi-tenant task management system using Supabase and PostgreSQL, enforcing strict data isolation through Row Level Security (RLS) policies.
- Wrote recursive SQL queries (CTEs) to detect circular task dependencies and implemented database triggers for real-time progress aggregation.
- Technologies: React, TypeScript, PostgreSQL, Supabase, AWS S3 | syncova.vercel.app

GitDoxx – Real-Time Collaborative Document Platform | Personal Project

Aug. 2025 – Dec. 2025

- Developed a conflict-free collaborative editor by integrating BlockNote with a custom Y.js provider and WebRTC-based synchronization to handle concurrent user sessions.
- Implemented real-time voice typing and document comparison using Groq (Llama 3.1 & Whisper), generating readable Markdown reports for automated version tracking.
- Managed complex application state using TanStack Query for server synchronization and Zustand for local collaboration state.
- Technologies: Next.js 15, TypeScript, BlockNote, Y.js, Firebase, AWS S3 | gitdoxx.vercel.app

UI/UX Design Tutorial | Personal Project

Feb. 2025 – July 2025

- Built a lightweight learning platform using vanilla HTML, CSS, and JavaScript, used by 60+ students for hands-on UI/UX practice.
- Implemented a responsive PWA architecture with offline access and Firebase Authentication for user tracking and progress persistence.
- Designed a modular JS architecture for feature isolation (search, feedback modal) while maintaining WCAG accessibility standards and ARIA labels.
- Technologies: HTML5, CSS3, JavaScript, Markdown, Firebase, PWA, GitHub Pages | violetto-rose.github.io/UI-UX/

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Java, Python, SQL (Postgres, MySQL)

Frontend: React.js, Next.js, HTML5, CSS3, Tailwind CSS, SASS

Backend/DB: Node.js, Flask, PostgreSQL, MySQL, MongoDB, Firebase, Supabase

Tools/Additional: AWS, Git, Vercel, CI/CD, Figma, RESTful APIs, Responsive Design, PWA, UI/UX Design

Certifications: Programming in Java (NPTEL)

Spoken Languages: English, Kannada, Hindi