

Guru Vyas

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Summary

B.Tech CSE student building **full-stack** and **AI-powered** web applications.

Education

Uka Tarsadia University

Jul 2023 – Jul 2027

B.Tech in Computer Science and Engineering

- GPA: 08.70/10.00

Experience

Open Source Contributor — [Zulip](#) 🔄

2025-2026

- Implemented and **merged** an event-driven reconnection optimization, reducing unnecessary delay when browser tabs resume.
- Collaborating with Zulip maintainers on an additional in-progress improvement, working through review and CI in a large production codebase.
- [Merged Pull Request](#)

Projects

Ed-VID

- Built an AI web app that converts text prompts into animated educational videos using Next.js and TypeScript.
- Designed an asynchronous rendering pipeline using Redis queues and a Python service.
- 🔄 [EdVid](#), 🔄 [Rendering Backend](#)

WebSpark AI

- Built an AI-powered web builder that generates runnable React or Node.js projects from natural language prompts, with browser-based execution support.
- Implemented live preview using WebContainers and structured LLM artifact parsing.
- 🔄 [WebSpark AI](#)

Dark PDF

- Developed a **browser-based utility tool** that algorithmically inverts PDF color schemas to “Dark Mode,” significantly reducing user eye strain during low-light reading.
- Engineered a **privacy-first architecture** where all file processing occurs **client-side**, ensuring sensitive user data never leaves the local machine.
- 🔄 [Dark-PDF](#) and Live at: [Vercel](#) 🔄

Technical Skills

- **Languages:** TypeScript, Python, Rust(basics),
- **Frontend:** HTML, CSS, React, Next.js, Tailwind CSS, Astro
- **Backend & Frameworks:** Node.js, Express, Django, Hono (Cloudflare Workers), REST APIs, Cloudinary
- **Database & ORM:** PostgreSQL, Prisma, MongoDB, SQLite
- **DevOps:** Git, GitHub, Docker, GitHub Actions
- **Tools & Workflow:** VS Code, Cloudflare Workers, Linux/WSL, FFmpeg

More writing and project notes at guruvyas.vercel.app/blog.