

# Guru Vyas

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## Summary

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

## Education

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### Uka Tarsadia University

*Jul 2023 – Jul 2027*

*B.Tech in Computer Science and Engineering*

- GPA: 08.70/10.00

## Experience

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### Open Source Contributor — [Zulip](#)

*2025*

- Reduced reconnection delay by making unsuspend checks event-driven when a browser tab resumes.
- Ensured test-environment compatibility and verified behavior via manual and automated tests.
- [Pull Request](#)

## Projects

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### Ed-VID

- Built an AI-powered web application that transforms text prompts into animated educational videos using a server-rendered Next.js and TypeScript architecture.
- Designed a stateful backend with PostgreSQL to preserve conversational and video context, enabling iterative refinement of generated content.
- Implemented an asynchronous media pipeline using Redis queues to offload Manim-based video rendering to a dedicated 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

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- **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, CI/CD Pipelines
- **Tools & Workflow:** VS Code, Postman, Figma (basic), Cloudflare Workers, Linux/WSL, FFmpeg, Manim

More writing and project notes at [guruvyas.vercel.app/blog](https://guruvyas.vercel.app/blog).