

# 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: 08.64/10.00

## Experience

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

2025-2026

- Merged a reconnection optimization for browser tab resume; in integration review: suppress local echo for disallowed group mentions, and surface an **EDITED** marker on modified polls.
- [Merged PR](#), [PR #37607](#), [PR #38006](#)

## Projects

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### TaxCopilot

- Built an AI legal assistant for Indian tax professionals across 4 services (FastAPI, Node.js/Express, Next.js) with RAG over Indian tax statutes using pgvector and AWS Bedrock Titan embeddings.
- Integrated AWS Textract OCR for scanned GST notices, citation validation with hallucination detection and auto-retry, deployed on EC2 with Nginx + PM2.
- [🔗 TaxCopilot](#)

### 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](#)

### 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](#), [🌐 darkpdf.vercel.app](https://darkpdf.vercel.app)

## Technical Skills

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- **Languages:** TypeScript, Python, Rust(basics),
- **Frontend:** HTML, CSS, React, Next.js, Tailwind CSS, Astro
- **Backend & Frameworks:** Node.js, FastAPI, Django, Hono (Cloudflare Workers), REST APIs, LangChain
- **Database & ORM:** PostgreSQL, Prisma, pgvector, MongoDB, SQLite
- **DevOps:** Git, GitHub, Docker, GitHub Actions, AWS (EC2, S3, Textract, Bedrock), Nginx
- **Tools & Workflow:** VS Code, Cloudflare Workers, Linux/WSL, FFmpeg

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