

ARYAN PATEL

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EXPERIENCE

RISC-V International

Jun 2026 – Present

LFX Mentee (Linux Foundation Mentorship Program)

Remote

- Selected for the Linux Foundation LFX Mentorship Program to work on **riscv-extensions-landscape**, the public catalog of RISC-V ISA extensions.
- Replaced a hand-maintained extension catalog with an automated pipeline: a **Node.js** script parses upstream Unified Database (UDB) YAML specs and syncs normalized metadata into the JSON catalog consumed by the site.
- Scheduled the sync through **GitHub Actions** cron workflows so the catalog tracks upstream spec changes without manual edits.
- Extended the generator to resolve extension **requirements** into a flat dependency array across all extensions, unblocking a maintainer's ISA Configuration Builder UI.
- Built and refined catalog UI components in **React**, incorporating maintainer review feedback across merged pull requests.
- Filed an upstream issue in **riscv-unified-db** documenting 33 missing extension YAML definitions across four families (ACLIC, Supervisor Domains, SPMP, Dynamic TSO).

PROJECTS

README.forge | [React](#), [Vite](#), [GSAP](#), [Node.js](#), [Vercel Serverless](#), [GitHub GraphQL](#), [Vitest](#) | [Live](#) | [Code](#) **Aug 2026**

- Full-stack tool pairing a client-side **React** README builder with a serverless SVG-card service, so generated GitHub profiles embed live, self-updating stat cards.
- Engineered an image-to-animated-ASCII pipeline (alpha-weighted box sampling, **Rec. 709** luminance, **Sobel** edge boost, **Floyd–Steinberg** dithering, 4 glyph ramps) exporting self-contained animated SVGs that run inside JavaScript-restricted GitHub READMEs.
- Designed a secrets-free static frontend: the app ships no credentials and calls GitHub from the browser, holding an optional user token in memory only; the single read-only token lives in the isolated backend.
- Built 5 edge-cached serverless endpoints over the **GitHub GraphQL API** (stats, streak, tech stack, identity, quote), cutting repeat-view latency and API cost to near zero via CDN caching.
- Added per-IP rate limiting, bounded query fan-out, and input validation/escaping, with graceful SVG error cards so a bad username never breaks an embedded image.
- Structured core logic as pure, side-effect-free modules unit-tested with **Vitest**; shipped responsive, keyboard-accessible UI honoring **prefers-reduced-motion** behind CSP and hardened security headers.

StudyQuest | [Vite](#), [TypeScript](#), [React](#), [Tailwind CSS](#) | [Code](#)

Nov 2025

- Built a study platform where users upload notes and generate condensed revision summaries.
- Implemented automatic flashcard and question generation to support active recall.
- Integrated a spaced repetition scheduler based on the 1-3-7 day interval rule.

Issue Scout | [React](#), [JavaScript](#), [HTML](#), [CSS](#) | [Code](#)

Dec 2025

- Built a platform that aggregates open GitHub issues into a single searchable view for contributors.
- Implemented user authentication and direct deep-linking back to the source issue.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, SQL

Frontend: React, Vite, Tailwind CSS, HTML, CSS, GSAP

Backend: FastAPI, Node.js, Express.js, REST APIs

Databases: MongoDB, MySQL

Data: NumPy, Pandas, Matplotlib, Seaborn

Tools: Git, GitHub, GitHub Actions, Vitest, Linux, VS Code

EDUCATION

Medhavi Skills University

Aug 2025 – Jul 2029

B.Tech, Artificial Intelligence and Machine Learning | *CGPA: 8.65/10*

Bengaluru, India

EXTRACURRICULAR

Karate — Competitive Championships

Gold Medalist, City Level | *Silver Medalist, District Level*

India