



FATHIR ADZAN SATIA

Payakumbuh • +6281266591758 • fathiradzans@gmail.com

GitHub: [FirstTirr](#) • Portfolio: tirr.my.id

SUMMARY

Passionate Frontend Developer focused on building performant web applications with a strong emphasis on motion, aesthetics, user experience, and clean architecture. Experienced in developing functional digital tools, web-based simulators, and management systems using modern frontend frameworks and simulation logic

EDUCATION

SD NEGERI 31 KOTA PAYAKUMBUH	2015-2021
MTs NEGERI 1 KOTA PAYAKUMBUH	2021-2024
SMKN 4 Payakumbuh — Student / Software Engineering	2024-NOW

PROJECT

- Frontend Inventaris Labor (inventaris.tefa-bcs.org)
 - Developed a modern web-based inventory management system for monitoring lab equipment usage, borrowing status, and administrative oversight.
 - Integrated multi-level access control for lab heads, productive subject teachers, and infrastructure staff.
 - Tech Stack:* Next.js, TypeScript, Tailwind CSS, React
- Space Debris Re-Entry Simulator (re-entry-sim.tirr.my.id)
 - Built a high-performance web application simulating the re-entry process of space debris into Earth's atmosphere.
 - Combined numerical computing backend logic with dynamic frontend interactive data visualization.
 - Tech Stack:* React, Next.js, Tailwind CSS, Fortran, FastAPI, Vue.js.
- Computational Fluid Dynamics (cfid.tirr.my.id)
 - Created web-based simulation platforms for CFD and satellite orbit trajectory calculations.
 - Implemented backend mathematical processing and interactive 3D/graphical UI modeling.
 - Tech Stack:* HTML5, CSS3/Tailwind, JavaScript, Python/Flask, Fortran.

CERTIFICATIONS

- Network Fundamental** – Aguna Course (Feb 2025)
 - Virtual Machine Fundamental** – Aguna Course (Feb 2025)
 - Mikrotik Dasar** – ID-Networkers (Feb 2025)
 - Dart Fundamental** – ID-Networkers (Jan 2025)
 - Python Fundamental** – Aguna Course (Oct 2024)
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SKILLS

1. **Frontend Development:** React, Next.js, Vue.js, Vite.js JavaScript, TypeScript, HTML5, CSS3, Tailwind CSS
2. **Backend & Simulation:** Python (Flask, FastAPI), Fortran, Nest.js
3. **Tools & Software:** Visual Studio Code, Figma UI, Git/GitHub