

GRENISH RAI

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SUMMARY

Full-stack web developer and UI/UX designer with 4+ years of experience building functional and user-friendly web applications. Skilled in frontend design and backend development. Active contributor to open-source projects.

EXPERIENCE

Full Stack Developer

Freelance Developer

December 2024 - Present, India

- Developed and maintained reusable UI and backend components across multiple projects to ensure code consistency, scalability, and faster delivery cycles; integrated automated testing for continuous deployment workflows.
- Delivered custom web applications tailored to client requirements, implementing responsive UIs with React/Next.js and scalable backends using Node.js, Express, and cloud databases.
- Integrated third-party APIs and payment gateways, applying secure authentication, input validation, and encryption to meet data privacy and industry security standards.

PROJECT

Authrix

Authrix • www.npmjs.com/package/authrix • July 2025 – Present

- Built a modular authentication system supporting email/password, magic link, OAuth (Google), and phone-based OTP using Firebase Auth and custom backend logic.
- Developed REST APIs for signup, login, session validation, and account management using Next.js App Router with middleware for route protection.
- Implemented secure user data handling with bcrypt password hashing, JWT-based authentication, HTTP-only cookies, and request rate limiting.

Detoxify

Detoxify · github.com/grenish/detoxify/ · November 2024 - Present

- Built a browser extension using Manifest V3 that manipulates YouTube's DOM in real-time to hide Shorts, filter videos by custom tags, and suppress unwanted feed elements based on user settings.
- Implemented a persistent settings system using `chrome.storage.sync` to store user preferences and propagate changes across browser sessions with reactive UI updates.
- Designed a modular content script architecture with scoped DOM observers to minimize performance impact while ensuring compatibility with YouTube's dynamic page loads (SPA behavior).

SKILLS

Programming : Javascript, TypeScript, Python, Express.js, Node.js, Rust, Machine Learning

Frameworks: ReactJS, Next.js

Design: Figma

Version Control: Git, GitHub, GitLab

Containerization: Docker, Docker Compose

Languages: English, Hindi, Nepali

EDUCATION

Bachelor of Computer Applications

Minor in Computer Applications • Sikkim Manipal Institute of Technology • Majitar, Sikkim, India • 2025

- Built a strong foundation in data structures, algorithms, database systems, web development, and software engineering principles through coursework and lab work.
- Applied concepts in personal projects involving full-stack development, UI/UX design, and introductory implementations of AI/ML models using tools like Python and TensorFlow.

High School

Minor in Biology • Kendriya Vidyalaya Bengdubi • Bengdubi, India • 2022

- Completed Higher Secondary Education (CBSE, 2022) from Kendriya Vidyalaya, Bengdubi, with a focus on Bio-Science.
- Studied core subjects including Biology, Chemistry, Physics, and English, building analytical and scientific reasoning skills.

CERTIFICATIONS

Problem Solving

HackerRank • 2024

- Earned HackerRank Problem Solving Certificate by demonstrating proficiency in algorithmic thinking, data structures, and efficient coding practices through timed, real-world coding challenges.

Dark Pattern Buster Hackathon

DPBH • 2024

- Participated in **Dark Pattern Buster Hackathon 2024**, building a browser-based tool to detect and neutralize deceptive UI patterns using DOM analysis, rule-based filtering, and user-centric design principles.

Python

HackerRank • 2023

- Earned HackerRank Python Certificate by completing challenges focused on core Python concepts, including data types, control flow, functions, and problem-solving with efficient code.

AWARDS & HONORS

Web Building Competition

Sikkim Manipal Institute of Technology (SMIT) • 2024

- Awarded First Prize in the Web Building Competition at college for designing and developing a fully functional, responsive website demonstrating strong frontend and backend integration skills.
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