

Ruzan Shrestha

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SUMMARY

Software developer with proven experience building and deploying real-world full-stack applications, including an AI-powered chatbot and Chrome extension. Proficient in modern JavaScript frameworks and cloud platforms, with strong problem-solving skills and a collaborative mindset. Currently pursuing a Bachelor's in IT (Software Engineering).

EDUCATION

Bachelor of Information Technology (Software Engineering)

Federation University (Expected Nov 2025)

- CGPA: 6.813/7.0

- Relevant coursework: Data Structures & Algorithms, Web & Mobile Dev, Software Eng, Cloud & Big Data, Networking, Game Dev, UX, Agile, Project Mgmt, Systems & Data Modelling, IT Strategy

PROJECTS

Smart Bookmark Organizer (Chrome Extension, Full Stack)

Tech Stack: JavaScript, HTML, CSS, Chrome APIs, Express.js, NodeJS, Groq Cloud (LLaMA 3), Render, Git

Live Demo: [Webpage](#)

Chrome Web Store: [Install Extension](#)

- Developed a full-stack Chrome extension that automatically categorizes bookmarks using AI, improving organization and findability without user intervention.
- Developed a clean, minimalist popup UI for efficient bookmark management.
- Engineered a backend using Express.js (hosted on Render) to securely process and route bookmark data to the LLaMA 3 model via Groq Cloud API for AI-powered categorization.
- Ensured full privacy — no data storage — by implementing a stateless architecture where user data is processed and discarded immediately.
- Optimized extension performance with asynchronous background operations and clean UI rendering for a seamless user experience.

AI Chatbot (Frontend + LLM Integration)

Tech Stack: React (Vite), JavaScript, Groq Cloud (Meta LLaMA 3), Express.js, Render

Live Demo: ruzanshrestha.github.io/chatbot

- Designed and implemented a responsive chatbot frontend using React and Vite, supporting real-time text conversations with a clean, modern interface.
- Developed a backend in Express.js (hosted on Render) to manage API requests and integrate Meta's LLaMA 3 via Groq Cloud for fast, intelligent language responses.
- Structured frontend architecture using reusable components, enabling scalability and clean state management with hooks.
- Used this project to solidify understanding of RESTful API interactions, frontend-backend communication, and component-driven development in React.

Skills

Languages & Frameworks: JavaScript (React, Next.js, Vite, Node.js, Express.js), Python, Java, C#, HTML/CSS

Tools & Platforms: Git, GitHub, VS Code, Chrome DevTools, Postman, GitHub Pages, Render, AWS, Azure

APIs & Services: REST APIs, Chrome Extension APIs, Groq Cloud (Meta LLaMA 3)

Areas: Full-stack development, Chrome extensions, LLM integration, responsive UI, API communication

EXPERIENCE

Independent Software Developer

Remote | Feb 2024 – Present

- Applied real-world dev workflows: API integration, version control, and cloud deployment via Render and GitHub Pages; configured custom domains for live sites.
- Released a Chrome extension (Smart Bookmark Organizer) with 22 active users and 7 public ratings (6 of them 5 stars), demonstrating user satisfaction and real adoption.