

Aryan Bajracharya

Frontend Developer | Full-Stack Web & Game Developer | BIM Student

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GitHub: github.com/aaryanboy Portfolio: aaryanboy.vercel.app

Professional Summary

Final-year BIM (Bachelor of Information Management) student who builds full-stack web applications and games with React and Next.js. Passionate about turning ideas into responsive, interactive experiences, solving real problems, and designing clean UIs backed by solid logic. Excited to bring creativity, problem-solving, and end-to-end development skills to an internship.

Education

Bachelor of Information Management (BIM)

Bhaktapur Multiple Campus | Tribhuvan University

2022 – Ongoing

Computer Science (Management Stream)

Nepal Police School

2020 – 2022

Secondary Education Examination (SEE)

Mahendra Vidya Ashram

2020

Technical Skills

Programming Languages	JavaScript, TypeScript
Web Development	HTML, CSS, React.js, Next.js, Tailwind CSS
Backend & Databases	MongoDB, Supabase
Game Development	Kaboom.js, Tiled, HTML Canvas
Tools & Technologies	Figma, Git/GitHub, Postman, VS Code

Projects

Top Down RPG

Long-Term Individual Project

Tech Stack: *Kaboom.js, Tiled, HTML Canvas, JavaScript, Vite* | [View Project](#)

- Building a browser-based 2D top-down RPG from scratch using vanilla JavaScript and Vite, with tile-based maps designed in Tiled and rendered through HTML Canvas.
- Implemented core gameplay systems including character movement, sprite-based animation, and collision detection, while iterating on game physics for smoother player-world interaction.
- Researched and applied path-finding logic for automated enemy movement, exploring discrete-math-based algorithms to drive NPC behavior ahead of upcoming boss-battle mechanics.
- Refactored the codebase into modular, concept-based files (player, map, enemy, physics) after learning first-hand how a single-file structure quickly becomes unmanageable at scale.
- Actively evolving the project with plans for interactable characters, fight mechanics, and a dedicated 2D boss-battle system.

E-commerce Platform

6th-Semester Full-Stack Project

Tech Stack: *Next.js, MongoDB, Supabase* | [View Project](#)

- Built a full-stack e-commerce platform from the ground up using Next.js for the frontend and API routes, with MongoDB and Supabase powering data storage and backend services.
- Developed an admin dashboard for managing product listings and inventory, alongside a customer-facing storefront for browsing and purchasing items.
- Integrated the eSewa payment gateway to support secure, localized online transactions for users in Nepal.
- Planned and documented mobile-responsive behavior separately to ensure a consistent shopping experience across devices.
- Deployed the application live on Vercel at na-pukhu-mini-market.vercel.app for public access and testing.

Shopify Store

7th-Semester Shopify Learning Project

Tech Stack: *Shopify, Pinterest* | [View Project](#)

- Built a hoodie e-commerce store on Shopify as a 7th-semester project to learn platform-based e-commerce setup under a Shopify Partner plan.
- Configured product listings, storefront theme customization, and marketing integration with Pinterest to drive traffic and product discovery.
- Gained hands-on experience with the Shopify ecosystem, learning no-code/low-code e-commerce tooling as a contrast to the custom Next.js and MongoDB-based platform built for the E-commerce Platform project above.

Punya Jewellery

Jewellery Storefront Website

Tech Stack: React, Next.js, Tailwind CSS | [View Project](#)

- Developed a sleek, responsive jewelry storefront using React, Next.js, and Tailwind CSS to showcase products in a clean, user-friendly interface.
- Built a product gallery with high-quality imagery and a dedicated contact section including social media links for customer engagement.
- Optimized the site for SEO and fast loading using Next.js's built-in image optimization, while ensuring full responsiveness across mobile and desktop views.

Mini Job

UI/UX to Frontend Project

Tech Stack: Figma, React, TSX | [View Project](#)

- Designed the complete UI and an interactive prototype in Figma before translating the design into a working frontend, bridging the gap between design and development.
- Converted the Figma design into a responsive React and TypeScript frontend with reusable components, fully matching mobile and desktop views to the original prototype.
- Deployment: mini-job-frontend.vercel.app | [Figma Design](#)

Training & Certifications

- **Quality Assurance** — SkillShikshya: Completed a 2-day onsite workshop on software testing and release processes, covering API testing using Postman, test case basics, and production readiness for applications.
- **BIM Coursework** — Tribhuvan University
- **CS50** — Self-paced (YouTube)

Other Skills & Activities

- **Art Competition** — Participated in an art competition on the theme "How Environment Affects Our Health," organized by ENPHO (Environmental and Public Health Organization) under USAID in coordination with CIKKAB and Kathmandu Metropolitan City, held at Basantapur, Kathmandu (October 2022).
- **Gurju Course, Certified** — Completed a traditional Gurju course through the local Newar Buddhist community as a member of the Bajracharya lineage, learning the foundational principles and practices of Vajrayana Buddhist puja rituals.