# Aisha Sartaj — Portfolio Website PRD

## 1) Overview & Goals

**Mission:** Build a fast, scalable, emotionally intelligent portfolio website that reflects Aisha’s technical expertise, creativity, and curiosity. The site must be modern, accessible, and expandable — capable of growing into a long-term professional platform with live sessions, blogs, and case studies.

**Primary Goals:** - Showcase work, thought process, and personality through interactive storytelling. - Achieve Lighthouse ≥ 90 across all pillars (desktop & mobile). - Use scalable architecture (Next.js + Tailwind + TypeScript + Vercel).

## 2) Tech Stack

**Framework:** Next.js (App Router, TypeScript)

**Frontend:** - **Tailwind CSS** for styling (with shadcn/ui component primitives) - **Framer Motion** for animations (smooth card drags, page transitions) - **Lucide React Icons** for clean iconography

**Backend:** - **Vercel Serverless Functions** for the contact form (with validation + hCaptcha) - **Resend** for secure email delivery

**Database (future‑ready):** - **Supabase (Postgres)** — for storing form submissions, analytics, or blog data

**Deployment:** - **Vercel Hosting** (auto HTTPS, CI/CD with GitHub) - **Domain:** buildwithaisha.com (DNS via Vercel)

**Analytics:** - **Plausible** (lightweight, privacy‑focused)

**Design Tokens:** - CSS variables bound to Tailwind config for light/dark mode theming - Primary accent: Emerald Green (emotionally resonant, human + tech blend)

## 3) Information Architecture & Layout

**Overview:**  
A single‑page, mobile‑first portfolio with smooth scroll and anchor navigation. Additional pages like /writing or /case‑study/<slug> can be added later.

**Sections & Order**

### Hero —

* Identity: *Aisha Sartaj — AI/ML Engineer Enthusiast*
* Tagline: *Build with Aisha — Exploring intelligence, empathy, and creativity through code.*
* Optional evolving sub‑tagline: *AI Engineer • Building human‑centered systems.*
* CTAs: View My Work, Resume, GitHub, LinkedIn.

### About Me —

* Professional bio + portrait.
* Skill chips highlighting key domains.
* **Resume** button (opens PDF or Notion CV).
* **Life** button → modal overlay with creative tiles (🎨 Art, ✍️ Poetry, 📚 Reading, 📷 Photography).
* Each tile includes short caption + external link.
* Purpose: maintain professional tone while showing depth & warmth.

### Now —

A **real‑time creative dashboard** capturing what I’m currently building, learning, and exploring — structured as a three‑pane layout that updates monthly, reflecting **technical progress, curiosity, and community engagement.**

#### Left — Presently Building:

Highlights one or two active projects. - Project Title + Brief Description *(e.g., SocratifyMe — Multi‑agent tutor pipeline for conceptual exploration).* - GitHub Link for transparency *(e.g., github.com/aishasartaj/socratifyme).* - Activity Status *(e.g., “pushing updates weekly”).* - Tech‑stack Chips *(e.g., LangGraph, Bedrock, OpenSearch, Streamlit).* - Purpose: convey active engineering work and sustained iteration.

#### Top Right — Currently Exploring:

Log of learning/discovery — courses, books, frameworks, or conferences. - Displayed as concise chips with icons (📚 Book, 🎓 Course, 🧠 Framework, 🎤 Conference). - Each includes a one‑line goal or takeaway *(e.g., 🎓 Deep RL with Hugging Face — understanding policy gradient stability).*

#### Bottom Right — Build / Study with Aisha LIVE:

Highlights upcoming or recent live sessions. - Shows date/time, session theme, and a “Join / Watch Replay” link. - *(e.g., Next Live: Oct 20 — Fine‑tuning LoRA Adapters on Feedback Examples 🎥).*

Together, these panes form a living snapshot of creation, exploration, and shared learning — a transparent view into both process and progress.

### Projects —

Interactive **draggable stack** (mobile: swipe, desktop: click‑drag). - Each card: project title, short description, timeline, and tech chips. - Hover reveals: project image, extended blurb, GitHub + “Check it out.” - Optional filter: All / ML / Web / Research.

### Work Experience —

**Flipbook layout** with Prev/Next controls and 3‑D rotate transitions. - Each page: role, company, outcomes, and takeaway line *(e.g., “Built emotion‑aware pipeline with Hume AI”).*

### Skills —

Grouped for clarity: - **AI / ML** — PyTorch, LangGraph, Hugging Face, RAG - **Data & Cloud** — SQL, AWS, Docker, MLflow - **Development & Tools** — Next.js, Tailwind, Framer Motion, Streamlit

### Contact —

Email, social links, and a short friendly form. Tagline: *“Open to collaborations, ideas, or even a quick chat over chai ☕.”*  
After submission → confirmation message.

## 4) Accessibility & SEO

* Semantic HTML, ARIA landmarks, and visible focus states.
* WCAG AA color contrast compliance.
* Alt text for all visuals.
* Metadata: description, OpenGraph, Twitter Card, canonical URL.
* Lazy‑loaded, responsive images (AVIF/WebP) with defined dimensions.

## 5) Security

* HTTPS (auto via Vercel)
* Contact API → input validation, rate limiting, **hCaptcha**
* Environment variables for secrets (Resend, hCaptcha keys)
* Optional Content‑Security‑Policy headers via next.config.mjs

## 6) Build & Launch Plan

**Development Workflow:** 1. npx create-next-app@latest buildwithaisha (TypeScript, Tailwind, App Router) 2. Implement sections as React Server Components: - /app/(home)/Hero.tsx - /app/(home)/About.tsx - /app/(home)/Now.tsx - /app/(home)/Projects.tsx - /app/(home)/Experience.tsx - /app/(home)/Skills.tsx - /app/(home)/Contact.tsx 3. Global layout in /app/layout.tsx (nav + footer). 4. Add theme.ts with CSS variables and a JS hook to toggle mode (persisted via localStorage). 5. Use Framer Motion for: - Smooth page transitions - Project card stack animation - Experience flipbook 3‑D rotate 6. Optimize with <Image> (Next/Image) for responsive lazy images. 7. Add SEO config in /app/metadata.ts. 8. Test Lighthouse + Axe for accessibility. 9. Deploy on **Vercel**, attach **buildwithaisha.com**.

## 7) Maintenance Rhythm

* **Monthly:** Update *Now* (projects + reading + live session).
* **Quarterly:** Add new project cards or work entries.
* **Yearly:** Refresh SEO, rotate API keys, review analytics.

**Decision:** Use **Next.js** for scalability and long‑term maintainability.  
The site remains single‑page at launch but supports quick expansion to new pages later (writing, live events, etc.).