You are an expert full‑stack engineer. Build a complete portfolio website project from scratch exactly as specified below. Output a fully working codebase with the exact file structure and file contents, ready to run locally and deploy to GitHub Pages. After generating files, include run and deploy instructions.

High-level requirements

- Tech stack: Vue 3 (Composition API, <script setup>), Vite, Tailwind CSS, vue-router, @heroicons/vue, ESM only.

- Purpose: Portfolio of “Hadi ZareZadeh — Full-Stack Web Developer”.

- Routes: / (Home), /about, /projects, /contact.

- Styling: Tailwind 3 with extended color palette and custom animations. Global utility classes for buttons, cards, reveal animations, and subtle gradient backgrounds.

- Images: External URLs proxied via https://wsrv.nl to add width/quality params.

- UX: Smooth page transitions, smooth scroll to hash, sticky navbar that changes style on scroll, scroll-to-top button in footer.

- Deploy: GitHub Pages, repository named “portfolio”, served at https://HadiZareZadeh.github.io/portfolio/. Use non-hash history with SPA redirect strategy for GH Pages.

- Accessibility: Provide alt text, focus styles, aria labels where applicable.

Project structure to generate

- package.json

- vite.config.js

- postcss.config.js

- tailwind.config.js

- index.html

- public/404.html

- src/

- main.js

- App.vue

- assets/tailwind.css

- router/index.js

- utils/imageProxy.js

- components/

- SiteNavbar.vue

- SiteFooter.vue

- ProjectCard.vue

- SkillBadge.vue

- ContactForm.vue

- pages/

- HomePage.vue

- AboutPage.vue

- ProjectsPage.vue

- ContactPage.vue

- README.md

- (No dist/ directory in source output)

Exact implementation details

1) package.json

- name: "hadi-portfolio"

- type: "module"

- scripts:

- dev: "vite"

- build: "vite build"

- preview: "vite preview"

- predeploy: "vite build"

- deploy: "gh-pages -d dist"

- dependencies:

- vue: ^3.4.21

- vue-router: ^4.3.2

- @heroicons/vue: ^2.1.5

- devDependencies:

- vite: ^5.3.1

- @vitejs/plugin-vue: ^5.0.5

- tailwindcss: ^3.4.6

- postcss: ^8.4.41

- autoprefixer: ^10.4.20

- gh-pages: ^6.3.0

2) vite.config.js

- ESM file with default export from defineConfig.

- base: "/portfolio/"

- plugins: [vue()]

3) postcss.config.js

- ESM default export with:

- plugins: { tailwindcss: {}, autoprefixer: {} }

4) tailwind.config.js

- ESM default export.

- content: ["./index.html", "./src/\*\*/\*.{vue,js,ts,jsx,tsx}"]

- theme.extend:

- colors.brand:

- 50: '#f5f7ff'

- 100: '#e9edff'

- 200: '#cfd8ff'

- 300: '#a7b6ff'

- 400: '#7c90ff'

- 500: '#576eff'

- 600: '#3f54db'

- 700: '#3242ab'

- 800: '#2a3889'

- 900: '#25306f'

- fontFamily.sans: ["ui-sans-serif","system-ui","-apple-system","Segoe UI","Roboto","Noto Sans","Ubuntu","Cantarell","Helvetica Neue","Arial","sans-serif"]

- boxShadow.soft: "0 10px 30px -12px rgba(0,0,0,0.12)"

- keyframes:

- fadeInUp: 0% { opacity: 0; transform: translateY(12px) } → 100% { opacity: 1; transform: translateY(0) }

- float: 0%,100% { transform: translateY(0) } → 50% { transform: translateY(-6px) }

- pulseGlow: 0%,100% { box-shadow: 0 0 0 0 rgba(87,110,255,0.45) } → 50% { box-shadow: 0 0 0 6px rgba(87,110,255,0.15) }

- shimmer: 0% { background-position: 200% 0 } → 100% { background-position: -200% 0 }

- animation:

- fade-in-up: "fadeInUp 700ms ease-out both"

- float: "float 6s ease-in-out infinite"

- pulse-glow: "pulseGlow 2.4s ease-in-out infinite"

- shimmer: "shimmer 2.5s linear infinite"

- plugins: []

5) index.html

- DOCTYPE HTML5.

- <html lang="en" class="scroll-smooth">

- <head> meta charset, viewport, title "Hadi ZareZadeh — Portfolio", description meta.

- Add a script before #app that restores the correct route from sessionStorage "gh\_redirect" when on GitHub Pages, and only applies to paths starting with "/portfolio/".

- <div id="app"></div>

- <script type="module" src="/src/main.js"></script>

6) public/404.html (GH Pages SPA redirect)

- Add script that transforms a deep link like /portfolio/xyz into /portfolio/?p=/xyz and stores { pathname, search, hash } in sessionStorage under "gh\_redirect" for the SPA to restore upon load.

- Use repoBase = "/portfolio".

7) src/assets/tailwind.css

- Tailwind directives: @tailwind base; @tailwind components; @tailwind utilities;

- Global rules:

- Ensure html, body, #app { height: 100% }

- body uses light theme defaults via Tailwind: bg-gray-50 text-gray-800 antialiased

- Utilities:

- .heading-gradient → bg-gradient-to-r from-gray-900 to-gray-600 bg-clip-text text-transparent

- .btn → inline-flex center, rounded-md, px-5 py-3, font-medium, transition, focus ring and ring-offset

- .btn-primary → .btn + bg-brand-600 text-white hover:bg-brand-700 focus:ring-brand-600 shadow-soft

- .btn-outline → .btn + border border-gray-300 text-gray-700 hover:bg-gray-50

- .card → rounded-2xl, border border-gray-200, bg-white, shadow-sm, transition hover:shadow-md

- Reveal helpers: .reveal-init (opacity:0, translateY(12px)); .reveal-in (opacity:1, translateY(0), transition 0.7s)

- .bg-animated-gradient → layered subtle brand radial/linear gradient background (use same values as in colors)

8) src/main.js

- Import createApp, App.vue, router, and "./assets/tailwind.css".

- Register a global v-reveal directive:

- On mount, add class "reveal-init".

- Use IntersectionObserver with threshold default 0.15 to add "reveal-in" then unobserve when intersecting.

- Mount app to "#app".

9) src/App.vue

- Layout: wrapper min-h-screen flex flex-col

- <SiteNavbar />

- <main class="flex-1">

- <RouterView v-slot="{ Component }">

- <transition name="page" mode="out-in">

- <component :is="Component" />

- <SiteFooter />

- Add a visually hidden div with id="projects-anchor" for scrolling anchor (sr-only).

- <style> for page transition:

- .page-enter-from { opacity:0; transform:translateY(8px) }

- .page-enter-active { transition opacity .35s ease-out, transform .35s ease-out }

- .page-leave-to { opacity:0; transform:translateY(-8px) }

- .page-leave-active { transition opacity .25s ease-in, transform .25s ease-in }

10) src/router/index.js

- createRouter with createWebHistory(import.meta.env.BASE\_URL).

- Lazy-load pages: HomePage, AboutPage, ProjectsPage, ContactPage.

- routes: "/", "/about", "/projects", "/contact".

- scrollBehavior:

- if savedPosition → return it

- else if to.hash → { el: to.hash, top: 80, behavior: "smooth" }

- else → { top: 0, behavior: "smooth" }

11) src/utils/imageProxy.js

- Export function proxyImageUrl(originalUrl, options = {}):

- If not string, return as is.

- Only proxy absolute http/https URLs; leave data:, blob:, or relative unchanged.

- Strip protocol, set URLSearchParams: url, and optional w, q, fit, auto.

- Return "https://wsrv.nl/?" + params.toString().

12) Components

a) SiteNavbar.vue

- Sticky top header with backdrop blur.

- Changes to "bg-white/95 border-b border-gray-200 shadow-sm" when scrolled > 8px; otherwise transparent.

- Left: logo text "HZ" and "Portfolio" (HZ bold, Portfolio muted).

- Desktop nav (sm+): inline links to "/", "/about", "/projects", "/contact" with exact-active-class "active".

- Mobile: hamburger toggles a small menu; uses @heroicons/vue outline Bars3Icon and Bars3BottomRightIcon.

- Scoped styles:

- .nav-link default muted; .nav-link.active shows underline pseudo-element; .mobile-link is block with hover.

b) SiteFooter.vue

- Footer with © {current year} Hadi ZareZadeh, and links to GitHub and LinkedIn.

- Floating scroll-to-top button at bottom-right, circular, brand-600 background, white icon, shadow, and "pulse-glow" animation. On click, window.scrollTo({ top: 0, behavior: "smooth" }).

- aria-label on the button: "Scroll to top".

c) ProjectCard.vue

- Card with aspect-video image, hover scale transform, dark gradient overlay on hover, and bottom action bar that slides in on hover.

- Props: title (required), description (required), image (default to an Unsplash fallback), github (optional), demo (optional).

- If github set, show "Code" button with ArrowTopRightOnSquareIcon; if demo set, show "Demo" with PlayCircleIcon.

- Use proxyImageUrl(image, { width: 1200, quality: 80, auto: 'format' }).

d) SkillBadge.vue

- Simple rounded-full pill badge with gray background and text. Uses <slot> for label.

e) ContactForm.vue

- v-model reactive fields: name (text), email (email), message (textarea).

- Floating labels implemented via Tailwind peer classes.

- On submit: prevent default, set submitted=true; show confirmation line “Thanks! This is a demo form. Your message was not sent.” for 4 seconds, then hide.

- Button uses .btn-primary.

13) Pages

a) HomePage.vue

- Hero section with class "bg-animated-gradient".

- Left column:

- H1 “Hadi ZareZadeh” with .heading-gradient and animation "fade-in-up".

- Subtitle: “Full-Stack Web Developer”.

- Brief paragraph: “Highly motivated developer with 4+ years of experience in Laravel, Vue 3, Tailwind, and Python automation.”

- Buttons:

- Primary: "View My Work" → RouterLink to "/projects#top" with .btn-primary and subtle "float" animation.

- Secondary: "Contact" → RouterLink to "/contact" with .btn-outline.

- Right column:

- Square avatar card with overflow-hidden rounded-2xl; tilt effect on mousemove: compute tiltX/tiltY based on cursor position; transform: perspective(800px) rotateX(...) rotateY(...); transition transform 200ms.

- Avatar src via proxyImageUrl on: https://images.unsplash.com/photo-1531123897727-8f129e1688ce?w=1200&q=80&auto=format&fit=crop

- On mount: reveal hero columns via CSS transition (opacity/translate) toggled by a local isShown flag.

b) AboutPage.vue

- Two-column layout:

- Left: avatar card with same tilt effect; below it a card of "quick facts" (Location, Email mailto link, Phone tel link, GitHub and LinkedIn external links, Languages).

- Right:

- Section “About Me”: text paragraph

- Exact text: “I am a passionate Full-Stack Web Developer with a B.Sc. in Computer Science (Kashmar Higher Education Institute, 2020). Began programming at age 9, now specializing in modern frameworks (Laravel, Vue 3, Tailwind CSS) and Python automation. Experienced in building web applications, data mining, and automating workflows. Adaptable, analytical, and always seeking opportunities for growth.”

- Section “Skills” with four cards, each containing <SkillBadge> tags for items:

- Programming & Web Dev: Python (Advanced), PHP, Laravel, Vue 3, Tailwind, Java

- Data & Automation: Python Data Mining, Workflow Automation, Basic AI/ML

- Databases: MySQL (Advanced), MongoDB (Basic)

- Other: Git/GitHub/GitLab, Flutter (Basic), Unity (Basic), Google Cloud (Basic), Linux & Windows

- Section “Experience” as a vertical timeline (border-l), items:

- Full-stack Developer @ Lyndakade (2020 – Present)

- Mobile/Desktop App Dev @ Lyndakade (2024)

- Python Bot Developer (2025)

- Game Developer @ Legend Company (2018–2020)

- Teaching Assistant @ Kashmar Higher Education Institute (2017–2020)

- Head of Education @ Scientific Association (2017–2020)

- Secretary of Director @ Cargo Clearance Co. (2015)

- Section “Education” list:

- B.Sc. Computer Science – Kashmar Higher Education Institute (2016–2020)

- High School Diploma in Physics & Mathematics – Dr. Shariati School (2014)

- Section “Presentations” list:

- Thesis: Lyndakade (2020)

- Evolutionary Algorithms (2019)

- Genetic Algorithm (2019)

- Section “Sports & Achievements” list:

- Karate-do: 2nd Dan Black Belt, 9 gold medals (2005–2016)

- Self-Defense Training (2019–2020)

- Section “Hobbies & Interests” badges:

- Camping & Outdoor Adventures, Socializing (Couchsurfing), Music & Movies, Algorithm Challenges, Short Fiction

- Avatar src via proxyImageUrl on: https://images.unsplash.com/photo-1546525848-3ce03ca516f6?w=1200&q=80&auto=format&fit=crop

c) ProjectsPage.vue

- Heading “Projects” + subtext “Selected work and experiments.”

- Grid of <ProjectCard> (5 items) with titles, descriptions, images (use these exact titles/descriptions/unsplash image URLs; github/demo empty strings):

1) Title: “E-commerce Website (2020 – Present)”; Description: “Full-stack Laravel + Vue 3 project for Lyndakade.”; Image: https://images.unsplash.com/photo-1519331379826-f10be5486c6f?w=1200&q=80&auto=format&fit=crop

2) Title: “Flutter Apps (2024)”; Description: “Developed mobile & desktop applications using Flutter.”; Image: https://images.unsplash.com/photo-1518770660439-4636190af475?w=1200&q=80&auto=format&fit=crop

3) Title: “Python Automation Bot (2025)”; Description: “Built a scalable bot system to automate Plato game platform accounts.”; Image: https://images.unsplash.com/photo-1510511459019-5dda7724fd87?w=1200&q=80&auto=format&fit=crop

4) Title: “Game Development (2018–2020)”; Description: “Developed games for Legend Company.”; Image: https://images.unsplash.com/photo-1538481199705-c710c4e965fc?w=1200&q=80&auto=format&fit=crop

5) Title: “Academic Game Project (2018)”; Description: “Driving-based game with realistic maps of Torshiz city.”; Image: https://images.unsplash.com/photo-1542751371-adc38448a05e?w=1200&q=80&auto=format&fit=crop

d) ContactPage.vue

- Heading “Get in touch” + subtext “Have a project or idea? Let's talk.”

- Row of external contact links:

- LinkedIn: https://www.linkedin.com/in/hadi-zare-zadeh-686113182

- GitHub: https://github.com/HadiZareZadeh

- Email mailto: HadiZareZadeh00@gmail.com

- Include <ContactForm />

14) Global behaviors and details

- Use <RouterLink> for internal navigation.

- Smooth scrolling behavior is implemented in the router; do not add new scroll-to-top hacks.

- Use the global v-reveal directive to animate cards and sections as they enter the viewport.

- Use descriptive alt attributes for images.

- Use transition and shadow utilities as described; reuse .card, .btn, .btn-primary, .btn-outline, .heading-gradient utilities.

- Ensure responsive layouts: one-column on small screens, two columns on md+ where specified.

15) README.md

- Title: “Hadi ZareZadeh — Portfolio (Vue 3 + Vite + Tailwind)”

- Quick start:

- npm install

- npm run dev

- List tech used.

- Brief note: Replace placeholder images/text in src/pages/\* and src/components/\* as needed.

16) GitHub Pages deploy instructions to include at project end (and ensure scripts/config support this)

- Ensure "predeploy" and "deploy" scripts are present as above.

- Default base in vite.config.js must be "/portfolio/".

- Commands:

- git init

- git add .

- git commit -m "chore: init portfolio with Vue 3 + Vite + Tailwind"

- git branch -M main

- git remote add origin https://github.com/HadiZareZadeh/portfolio.git

- git push -u origin main

- npm run deploy

- After deploy, enable GitHub Pages with Branch: gh-pages, root. Final URL: https://HadiZareZadeH.github.io/portfolio/

Final deliverables

- Print the complete file tree.

- For every file, print its full content.

- Then print:

- How to run locally.

- How to deploy to GitHub Pages (with the above steps).

- Notes about SPA redirect and BASE\_URL.