

# Nicol – Personal Portfolio Project (Client-Style Brief)

**Owner:** Nicol

**Mentor:** Ken

**Project Type:** Portfolio website — shipped in stages (V1 now, V2 after Front End Libraries cert)

**Repo:** (create a new GitHub repo named `nicol-portfolio`)

**Deploy:** GitHub Pages (V1), later migrate to a React build for V2

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## 1) Objective

Create a clean, fast, accessible personal portfolio that: - Introduces who you are (short bio + photo/avatar). - Showcases FreeCodeCamp projects with clear links and short descriptions. - Lets people contact you easily. - Demonstrates basic JS interactivity now (V1), and modern front-end libraries later (V2).

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## 2) Delivery Plan (Progression)

**V1 (Immediately after JavaScript Algorithms cert):** - **Stack:** HTML5, CSS3, vanilla JS - **Pages/Sections:** Home (hero), Projects, About, Contact (simple form or mailto link) - **Enhancements (2-3 required):** see §4 - **Deploy:** GitHub Pages

**V2 (After Front End Development Libraries cert):** - **Stack:** React + a styling approach (Bootstrap or Sass) - **Upgrades:** Componentized layout, better styling, optional dark mode, smoother animations, improved projects grid, SEO/meta polish. - **Deploy:** React build to GitHub Pages or Netlify.

*(Optional V3 later: add blog/notes, simple CI for build checks, Lighthouse 90+ targets.)*

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## 3) V1 Deliverables

1. Public GitHub repo with a **README.md** that includes:
2. Project purpose, stack, how to run locally, and deployment link.
3. Live site via **GitHub Pages**.
4. Four core sections:
5. **Hero:** name, short one-line value statement, call-to-action button to Projects.
6. **Projects:** grid/cards of FCC projects (title, 1-2 sentence summary, tech used, link to live/demo & code).
7. **About:** short bio (2-3 sentences) + skills list (HTML, CSS, JS; mark what you're currently learning).
8. **Contact:** mailto link or simple form (non-backend; validate in JS, then `mailto:` or link to your email/LinkedIn).
9. **2-3 vanilla JS enhancements** (see next section) implemented cleanly.

10. Basic accessibility & performance passes (see §6).

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## 4) V1 JavaScript Enhancements (choose 2–3)

- **Filter projects by tag/tech** (buttons to show All / HTML / CSS / JS).
- **Dynamic Projects List** sourced from a small local `projects.json` (or inline JS array) so adding projects doesn't require editing HTML.
- **"Copy link to clipboard"** button for each project.
- **Theme toggle (light/dark)** persisted with `localStorage`.
- **Form validation** for Contact (check empty fields, email pattern with regex).

**Required:** Include your **FreeCodeCamp project links** (live + code). At least 4 items to start. This can be the data backing your dynamic Projects list.

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## 5) Content Requirements

- **Bio:** 2–3 sentences; keep it positive and factual.
  - **Avatar/photo:** Optional; keep file size small.
  - **Project cards:** title, short description (what problem, what you learned), tags (e.g., `html`, `css`, `js`).
  - **Contact:** mailto link or a basic non-backend form with client-side validation.
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## 6) Design, Accessibility & Performance

- **Layout:** mobile-first; responsive grid for projects.
- **Typography/Color:** 1–2 fonts max; 1 primary color + neutral shades; ensure contrast (use WebAIM Contrast Checker).
- **A11y:** semantic HTML (landmarks: header/main/footer/nav), alt text for images, focus styles visible, aria-labels where helpful.
- **Performance:** images  $\leq$  200KB, use `loading="lazy"` for project images; avoid heavy libraries in V1.

**Acceptance checks (V1):** - Pages render well on mobile (375px), tablet (~768px), laptop ( $\geq$ 1280px). - All project links work. - JS enhancements function without errors (check devtools console). - Lighthouse: Performance  $\geq$  80, Accessibility  $\geq$  90, Best Practices  $\geq$  80, SEO  $\geq$  80.

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## 7) Git/GitHub Workflow (simple & safe)

**Setup (once):** 1. Install Git, set name/email:

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git config --global user.name "Nicol"
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`git config --global user.email "you@example.com"` 2. Create repo on GitHub: `nicol-portfolio`. Clone it locally.

**Branching model:** - `main` = always deployable. - For each feature/fix, create a branch: `feature/projects-grid`, `feat/theme-toggle`, `fix/typo-readme`.

**Routine:** 1. `git checkout -b feature/<name>` 2. Do the work, test locally. 3. Commit small and often (present tense): - `git add .` - `git commit -m "add projects grid and card layout"` 4. Push and open a Pull Request (PR) to `main`. 5. Self-review using the checklist (below), then merge.

**PR Self-Review Checklist:** - Does it build/run locally without console errors? - Is the HTML semantic and valid? - Are styles responsive at common breakpoints? - Are JS enhancements accessible (keyboard/ARIA) and resilient (null checks)? - Are links working? Spelling checked?

**Avoid Git overload:** - Keep commits small; one idea per commit. - Don't rewrite history; if stuck, make a new branch and try again. - Use GitHub Desktop if the CLI feels heavy (optional).

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## 8) Deployment (V1)

1. In GitHub repo → **Settings** → **Pages** → Source: `main` / `/root` → Save.
2. Ensure entry file is `index.html` at repo root.
3. Wait 1–2 minutes for the site URL to go live. Add the URL to README.

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## 9) V2 Upgrade (after Front End Libraries)

- **Rewrite in React** (Vite or Create React App).
- Convert sections to components: `Header`, `ProjectCard`, `ProjectsGrid`, `About`, `Contact`, `ThemeToggle`.
- **Styling:** Bootstrap or Sass; ensure consistent spacing and a system for colors/sizes.
- **Data:** move projects data to a JSON file or fetch from GitHub API/Gist.
- **Enhancements:**
  - Dark mode (context + `localStorage`).
  - Animations (CSS transitions or a lightweight lib).
  - Accessibility review and keyboard testing.
- **Deploy:** build to GitHub Pages or Netlify; update README and links.

**Acceptance checks (V2):** Lighthouse targets  $P \geq 90$ ,  $A \geq 95$ ,  $BP \geq 90$ ,  $SEO \geq 90$ . No console warnings in production build.

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## 10) Timeline & Expectations

- **Start:** Begin **immediately after** completing the JavaScript Algorithms cert.

- **V1 Duration Target:** 1–2 weeks of steady, part-time effort.
  - **Review:** Open a PR when V1 is live; share repo + Pages link for mentor review.
  - **V2 Trigger:** Begin once the Front End Development Libraries cert is completed (React/Bootstrap/Sass learned).
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## 11) Support & References

- **MDN Web Docs:** HTML, CSS, JS references and examples.
  - **FreeCodeCamp Forum:** project help and examples.
  - **Lighthouse:** Chrome DevTools → Audits (check performance & accessibility).
  - **Contrast Checker:** WebAIM Contrast.
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## 12) Kickoff Note to Nicol

Nicol, you'll treat this like a real client build: follow the brief, ship a clean V1, then iterate after your next cert. Keep scope tight, commit small, and ask questions when blocked. Start as soon as you finish your JavaScript Algorithms certification.

**You've got this. Ship V1, then we level it up.**