

HUNTER REGULAR

FULL-STACK SOFTWARE DEVELOPER | APPLIED AI & SaaS PRODUCTS | FOUNDER

Campbellton, Newfoundland and Labrador, Canada • Remote opportunities • +1 709 220 6846 • hunterregular@gmail.com
GitHub | StudyHelpAI | Mouseion Agentica | LinkedIn

PROFESSIONAL SUMMARY

Founder and hands-on full-stack software developer who has taken AI-powered web products and public-facing tools from concept into live operation. Works across React, Next.js, TypeScript, SQL-backed applications, server APIs, authentication, payment integrations, CI/testing and production troubleshooting. Founded HCR Digital Works and directs its technical delivery through practical coding, AI-assisted development, rigorous review and release ownership. Brings unusual breadth across applied AI, software quality, digital research infrastructure, product strategy and evidence-driven documentation.

SELECTED DELIVERY HIGHLIGHTS

- Shipped StudyHelpAI, a live AI learning application with text, image and PDF workflows, user accounts, credit controls and Stripe-based billing infrastructure.
- Launched Mouseion Agentica's public digital research and reading platform, with a 54-entry curated collection and source-linked machine-readable research interfaces.
- Delivered a public Shopify Launch Readiness Checker and verified a release with 28 passing automated tests.
- Commissioned and independently reviewed a 24-answer, six-episode controlled AI-memory evaluation with sealed results, versioned evidence and qualified conclusions.

TECHNICAL COMPETENCIES

Languages & frameworks: TypeScript, JavaScript, SQL, HTML5, CSS3, JSON, React, Next.js, Node.js runtime.

Backend & AI: Supabase / PostgreSQL, authentication and account state, server-side APIs, REST/HTTP, Stripe Checkout and signed webhooks, OpenAI Responses API, image/PDF input processing.

Delivery & QA: Git, GitHub, GitHub Actions, Vercel, CI/CD, Node regression tests, Playwright browser testing, manual functional/API/mobile QA, debugging, defect documentation.

Platforms & operations: Shopify, PostHog, Google Search Console, technical SEO, Linux/SSH workflows, spreadsheet analysis, research provenance and version-control practices.

PROFESSIONAL EXPERIENCE

HCR DIGITAL WORKS — Founder, Full-Stack Developer & Product Lead

Self-employed | Remote, Canada | 2026–Present

- Own the product lifecycle across web software and digital services: opportunity research, requirements, architecture and workflow choices, hands-on implementation, AI-assisted engineering coordination, test acceptance, deployment and iteration.
- Develop and oversee Next.js/React applications and API integrations; troubleshoot authentication, database records, payment lifecycle, external AI responses, production configurations and release failures.
- Plan and execute functional, regression, API and Android-device QA; review automated test evidence, reproduce defects, define acceptance criteria and verify changes in deployed environments.
- Maintain release and source-control workflows using GitHub, GitHub Actions and Vercel; produce evidence-backed technical documentation, scope decisions and operational runbooks.
- Lead product positioning, ecommerce offers, public documentation, SEO and indexing investigations, and privacy-conscious analytics to support product discovery and release quality.

SELECTED SOFTWARE & ENGINEERING PROJECTS

StudyHelpAI | Full-Stack Web Application | studyhelpai.app

- Built and operate an AI-assisted education platform using Next.js, React and TypeScript. Supports typed questions, phone photos and PDF uploads with step-by-step explanations and a responsive study workspace.
- Integrated Supabase email authentication and server-validated account sessions with PostgreSQL-backed credit accounting, Stripe Checkout, signed webhook fulfillment and customer billing flows; verified subscription, credit and refund cases in sandbox.
- Developed and verified server-side solve workflows with upload/type/size validation, controlled JSON errors, UUID-based idempotent retries, per-account rate limits and application-level AI spending safeguards.
- Introduced visual-input review so users can examine AI-read diagrams, values and worksheet labels; tested ambiguous images, handwriting, graphs, PDFs, retries, changing inputs and failure recovery.

- Use automated Node tests, Playwright browser checks and GitHub Actions builds alongside mobile exploratory, API and regression tests; review logs, fixes and live post-release behaviour.
- Documented reproducible defects including solver JSON parsing failures and analytics HTTP 403 responses, with impact analysis, reproduction evidence, expected behaviour and acceptance tests.

Mouseion Agentica | *Digital Knowledge Platform & Research Infrastructure* | mouseionagentica.org

- Conceived and directed a publicly accessible AI-focused scholarly platform with library/reader journeys, educational collections, source attribution, research records and stewardship workflows.
- Led the launch of a curated 54-entry collection: 27 locally held works/materials and 27 source-linked readings, with publication and redistribution constraints represented explicitly.
- Set requirements for provenance-aware retrieval, identity/version references, corrected claims, permissions and accountable handoffs across product, engineering, research and visual-design work.
- Directed technical validation of public reader and machine-readable Pinakes-style interfaces, mobile usability, canonical URLs, sitemap accessibility and read-only API responses.

Shopify Launch Readiness Checker | *Public Diagnostic Web Tool*

- Shipped a public-facing storefront review application that evaluates observable site-launch conditions, creates prioritized, evidence-linked findings and distinguishes public checks from merchant-only facts.
- Defined case-based QA, investigated false positives and validated the launch with 28 passing automated checks; tested owned and external public storefronts without private-store access.

Commerce, ProofPack & Client-Facing QA Tools | *HCR Digital Works*

- Built and manage a live Shopify storefront for digital products and fixed-scope services, including catalog organization, product pages, samples, buyer guidance and Android shopping/checkout verification.
- Developed ProofPack, a structured customer completion-report offering with redacted sample, evidence appendix, validation steps and clear scope/limitations; also prepared practical QA and SEO diagnostic resources.
- Investigate Search Console indexing, canonicalization, sitemaps, links, structured content and traffic signals; separate confirmed issues from normal crawl exclusions before authorizing changes.

ADDITIONAL LEADERSHIP, RESEARCH & DELIVERY

Calm Learning Sanctuary | *Founder & Creative Production Lead* | 2026–Present

- Created and manage a calm educational-media project, directing topic research, scripts, narration and voice review, visual assets, editing, production QA, brand consistency and publishing workflows.
- Produced a public Alexander the Great documentary, coordinating historical research, voice corrections, multimedia assembly and final viewer-facing quality checks.

Applied AI Quality & Institutional Memory Research | *Founder-Directed Research Programme*

- Designed problem statements and evidence requirements for AI-output reliability, source attribution, knowledge revision, authorization boundaries and long-term agent continuity.
- Oversaw a controlled, two-arm synthetic comparison of excellent conventional notes and an accepted memory-retrieval workbench (six paired episodes, 24 final answers and 96 scored components); reviewed the observed differences, source-precision errors and resource burden.

EDUCATION

High School Diploma | Lewisporte Collegiate, Lewisporte, Newfoundland and Labrador | 2016

SELECTED PORTFOLIO

Live products: studyhelpai.app • mouseionagentica.org

Code & professional profile: github.com/hunterregular-a11y • linkedin.com/in/hunter-regular-631a41270/