

HALANIA DIXON

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PROFESSIONAL POSITIONING

AI Product Engineer, Full-Stack Developer, and Creative Technologist with founder/operator experience. Builds production web, mobile, and AI products end to end across React, Next.js, TypeScript, PostgreSQL/Supabase, Stripe, LLM APIs, agent workflows, semantic search, accessibility, and creative AI systems. Background includes paid current platform work for AI Makers Generation, independent product/client work, beauty-tech SaaS, AI-generated brand/film campaigns, and nearly a decade operating an Atlanta salon.

CORE SKILLS

Languages: TypeScript, JavaScript, SQL, Python, HTML5, CSS3, GLSL

Frameworks: React, Next.js App Router, React Server Components, Server Actions, Node.js, Vite, React Native, Expo, React Router, Deno

Databases: PostgreSQL, Supabase, Drizzle ORM, pgvector, full-text search, migrations, row-level security, triggers, functions, indexes, constraints

AI Engineering: Anthropic Claude API, OpenAI API, structured outputs, function/tool calling, multi-agent workflows, event-driven agents, human-in-the-loop approval, embeddings, semantic search, eval harnesses, guardrails, prompt versioning, token-cost controls

APIs/Auth/Payments: REST APIs, route handlers, webhooks, signature verification, OAuth, JWT verification, Clerk, Supabase Auth, Stripe Checkout, live-mode Stripe payment integration, rate limiting

Testing/Quality: Vitest, React Testing Library, PGLite migration tests, axe-core CI gating, ESLint, strict type checking, GitHub Actions

Front End: Tailwind CSS, design tokens, responsive UI, Zustand, React Context/useReducer, Framer Motion, GSAP, Three.js, React Three Fiber, WebGL, custom GLSL shaders, WCAG 2.2 AA accessibility

Creative AI: Midjourney, Runway, Kling, Google Veo, Higgsfield, Pika, Luma, Stable Diffusion, Flux, ComfyUI, LoRA training via fal.ai, multimodal/image-to-video workflows

Post/Creative: DaVinci Resolve, Final Cut Pro, Adobe Premiere Pro, After Effects, Photoshop, Lighroom, Unreal Engine

EXPERIENCE & PROJECTS

AI Makers Generation — Forward Deployed Engineer / Full-Stack Engineer

Paid current employment | aimakersgeneration.com

Membership, payments, and course platform for an Atlanta AI education community running meetups, workshops, and cohorts.

- Developed/rebuilt the AI Makers Generation site and platform across membership, payments, content, authentication, and AI assistant workflows.
- Built Stripe Checkout payment flow with signed webhook reconciliation for cohort enrollment; the server creates pending applications and verified Stripe events reconcile paid status.
- Found and fixed an authorization vulnerability where an AI chat endpoint accepted caller identity from the request body and executed database-write tools with a service-role key; moved identity to server-verified Supabase JWTs, added per-tool authorization checks, scoped edits to author ownership, and removed wildcard CORS.
- Contributed Supabase auth/data features across a 7-table schema with 17 row-level security policies, OAuth UI for 5 providers, and 2 Supabase Edge Functions.
- Teach/facilitate AI Makers Generation cohorts, including Claude Code and AI-assisted coding workflows.

Halania R. Dixon — Independent Projects & Client Work

Atlanta, GA | 2022–Present

Independent product engineering and creative technology practice spanning full-stack applications, AI systems, immersive web, client work, and AI-directed film.

STAXK — Creator & Sole Developer

Live/deployed project

AI job-search platform that sources postings, semantically matches them against a résumé, drafts outreach, and requires human approval before sending.

- Built an Inngest-based AI workflow with 15 agent files and 19 registered background functions; stages chain by emitted events and can rerun independently.
- Designed a 19-table Supabase/PostgreSQL schema with 25 row-level security policies across 14 migrations, including storage-bucket policies for résumé uploads and server-only service-role isolation.
- Implemented semantic matching with 1,536-dimension embeddings, pgvector, IVFFlat cosine indexing, custom scoring, and 10 source adapters.
- Made human approval a system-level constraint by gating outbound sends on approved status so generated messages cannot reach recipients without release.
- Added CI checks for accessibility and AI-output quality through axe-core route tests and a golden-set eval workflow.

TradeSprout — Sole Developer

Live/deployed project

Trading journal and market-education app that reads chart screenshots with a vision model and explains them in plain language.

- Designed a 29-table Drizzle/PostgreSQL schema across 20 migrations, including constraints, indexes, and generated full-text search.
- Maintained 1,114 static test/it cases, including database/migration coverage using PGlite/Postgres.
- Built vision-model chart reading with structured output validation and guardrails that sanitize content, validate ranges, band confidence, and decline low-confidence responses.
- Implemented 24-hour user-scoped response deduplication keyed by screenshot hash and prompt version, including same-batch dedupe for repeated uploads.
- Fixed a silent Vercel Cron/Clerk middleware failure by exempting cron routes and requiring a shared secret before scheduled jobs run.

TwoLens — Creator & Sole Developer

twolens.io | Live/deployed project

AI film pre-production system: idea in, production bible out, designed so downstream generation models produce consistent characters, environments, props, and scenes.

- Built a consistency engine that stores characters, environments, and props as canonical descriptors and composes model-specific prompts from one source of truth.
- Modeled character drift through anchor entities, states, wardrobe/makeup layers, lock levels, and a continuity ledger that flags wrong-state or unverified entities by scene.
- Designed a 60-table Drizzle/PostgreSQL schema with row-level security, guard triggers, and automated test coverage across 1,199 static test/it cases.

Greenlight — Creator & Sole Developer

github.com/UrOrb/greenlight

Approval-gated agent pipeline where generated campaigns cannot publish without human release.

- Built a three-agent workflow on Mastra with approval modeled as a policy function, not a UI toggle.
- Used composable predicates for side effects, spend thresholds, regulated claims, first-time audiences, and read-only allowlists; the policy fails closed and logs which rule triggered.

- Identified and reported upstream Mastra approval bug [mastra-ai/mastra #20470](#), supplied a minimal reproduction, and received maintainer triage including an impact:high label.

Selah — Sole Developer

Live/deployed project

Cross-platform wellness app covering exercise programming, readiness scoring, nutrition tracking, and journaling.

- Built 63 non-layout Expo route/screen files for iOS, Android, and PWA surfaces from one React Native/Expo codebase.
- Designed a 29-table Supabase/PostgreSQL schema with row-level security setup, database functions, and triggers.
- Architected the app local-first with backend services defined as interfaces with mock implementations, allowing the product to run without a backend while keeping Supabase additive.
- Kept third-party API access out of the client bundle by routing calls through a Supabase Edge Function behind the same service interface.

Attune — Sole Developer

Live/deployed project

Real-time voice application for conversation practice that tracks emotional state and goal progress turn by turn.

- Built 11 Next.js route-handler endpoints with a shared rate limiter across AI routes.
- Designed a Claude tool-use contract that returns structured state values, reasons, behavior flags, and goal progress for each conversational turn.
- Built a two-model architecture using Claude for language and OpenAI for voice, with fallback to browser speech synthesis when provider keys are unavailable.
- Implemented a real-time voice loop with Web Speech API pause detection and microphone gating during playback.

Breadcrumb — Sole Developer

Live/deployed project

Offline-first task app with native background notifications, shipped as web and iOS builds from one codebase.

- Built a PWA with programmatic manifest, service worker, offline support, JSON export/import, and a Capacitor iOS shell with native background notifications.
- Produced server and static/mobile build shapes from one codebase by compiling route handlers out of the Capacitor export.

6 Figure Playbook — Creator & Sole Developer

Live/deployed project

Daily accountability app for tracking habits and revenue against targets.

- Built an installable PWA with offline capability for daily personal production use.

AURA — Sole Developer / Creative Developer

[aura-apparel-shop.vercel.app](#)

Fictional/demo streetwear storefront with browse-to-checkout flow and 3D product gallery.

- Built a demo storefront with 33 components, 6 pages, 3 API routes, a React Three Fiber 3D product gallery, and roughly 42 catalog products.
- Built server-trusted mock checkout validation that recomputes totals from the catalog and rejects unknown product identifiers; designed as Stripe-ready without claiming real orders.
- Managed cart and saved-item state with React Context/useReducer persisted to local storage, shipped an error boundary, and completed an accessibility pass.
- Wrote a 163-line Python asset pipeline for background removal, bounding-box trimming, WebP conversion, and JSON manifest generation.

The Meridian — Creative Developer

realtor-scroll.vercel.app

Luxury home-builder marketing site built as a scroll-driven cinematic experience.

- Wrote a custom GLSL fragment shader implementing Ashima simplex noise, driven by time, scroll, and reveal uniforms through React Three Fiber.
- Built “Step Inside,” a GSAP crash-zoom into a draggable 360-degree interior panorama mapped inside a Three.js sphere.

HalaniaDixon.com — Inside Her Head — Creative Developer

halaniadixon.com

Personal portfolio built as a scroll-driven WebGL experience.

- Built a scroll-driven WebGL portfolio with Three.js and React Three Fiber, scrubbing an intro video by scroll position and cross-fading into a live 3D scene.
- Added dynamic import, SSR-disabled WebGL, color-matched placeholders, and runtime capability gating for lower-end devices.

Destination College Park — Commissioned

destinationcollegepark.com

501(c)(6) destination-marketing nonprofit for College Park, Georgia.

- Wrote a funding prospectus that helped secure \$500,000 for a 501(c)(6) destination-marketing nonprofit.
- Built the organization’s website and automated a municipal RFP proposal deliverable with 15 composable Python scripts.

OYRB / Own Your Brand — Founder & Sole Developer

oyrb.space | 2024–Present

Live booking and storefront platform for independent beauty professionals.

- Built a live platform where users can visit the site and sign up, using Next.js, React, TypeScript, Supabase/PostgreSQL, Vercel, and live-mode Stripe payment integration.
- Designed reusable storefront templates from shared layout components and themes.
- Built from domain expertise gained while operating Glambox Room Salon.

Brand & Film Work — AI Creative Director

AI-generated commercials, brand films, campaign concepts, and music visuals.

- Directed AI-generated commercials and brand films end to end: concept, prompt engineering, model selection, generation workflow, editing, and sound design.
- Created national-brand spec campaigns and independent brand-film concepts while keeping spec work distinct from commissioned work.
- Commissioned to create AI-generated tour visuals for Lloyd.
- Ran controlled model comparisons for character-consistency work, scoring outputs on lighting, skin texture, color depth, and realism before moving selected images into video generation.
- Grew an audience to 121K+ combined followers across social platforms, including TikTok, Facebook pages, and Instagram.
- Selected work/materials include Coca-Cola, OLLY, Fashion Nova, Texas Pete, Starbucks, Pepsi, Lloyd, JusBlaze, Film Bar AI, Lorve Fragrance, Darion D’Anjou Productions, “Apocalyptic,” and “Greed.”

Glambox Room Salon — Founder & Owner

Atlanta, GA | 2016–2025

- Founded and operated an independent Atlanta salon, owning operations, pricing, brand, client experience, and growth.
- Built a celebrity clientele through word of mouth.
- Designed, built, and maintained the salon website on Wix for four years, extending platform defaults with custom HTML/CSS; this was the start of the development practice.

EDUCATION

Savannah State University — Business coursework
Virginia College — Cosmetology coursework