HARRISON STARKE

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EDUCATION

University of British Columbia Vancouver, BC

Bachelor of Science, Computer Science | Dean's List Expected May 2027

- Coursework: Software Engineering, Algorithms, Computer Systems, Databases, AI, Applied ML, HCI

EXPERIENCE

Flytographer *(travel-photography marketplace, 600+ photographers in 350+ cities)* Victoria, BC

AI Enablement Specialist (Contract) May 2026 to Aug 2026

- Built an LLM evaluation pipeline in Python on GitHub Actions: ~1.9K queries/week to ChatGPT, Perplexity, Gemini, and Google AI Overviews scored by an LLM judge, with retries, a cost guardrail, and a concurrency lock; 99.8% consistent.
- Restructured the support chatbot's RAG knowledge base from one document into 21 articles, exposing exactly where it failed or escalated to a human and sharply cutting failures; automated a weekly gap analysis of its logs.
- Led a site-wide AEO audit, benchmarking our visibility vs. competitors with that pipeline and analyzing their schema and metadata; wrote the schema spec and AEO plan that shipped to 1,300+ pages.
- Designed and built an in-house hiring platform (Next.js, TypeScript, PostgreSQL) from PRD to production, replacing a $9K/yr vendor ATS (~94% cost cut), with domain-restricted OAuth, least-privilege DB roles, and isolated staging.
- Migrated 1,431 vendor records with none dropped, wrote every change and its audit-log entry in a single database transaction, and ran lint, 94 tests, and a build in CI on every PR; documented it all in a 522-line runbook.

Junior Developer (Co-op, 3 summers) May 2023 to Aug 2025

- Designed and launched the site's first AI support chatbot (conversation flows, knowledge base, AI answer fallback), giving customers instant answers instead of email; its logs later seeded the V2 redesign.
- Automated the weekly QA testing matrix end to end, saving the dev team ~30 min/week, and documented bugs and feature tests across agile sprints.

Concierge (Part-time) May 2022 to Present

- Resolve time-sensitive customer and photographer issues (proposals, weather, reschedules) across 350+ cities.

PROJECTS

Mapogo (mapogo.app) | *Swift, SwiftUI, SwiftData, Supabase (Postgres), StoreKit 2, Cloudflare* Jun 2026 to Present

- Built a native iOS travel journal solo, from concept to public TestFlight beta in 4 months: a Mapbox globe of 255 countries and 23K cities, trip planning shared with friends, and offline country guides with visa rules.
- Architected an offline-first sync engine (SwiftData to Supabase Postgres, 10 tables): edits save locally first, then sync via a server-timestamped cursor, SHA-256 change detection, and idempotent batched upserts that are safe to retry.
- Enforced data integrity in Postgres: stale-write rejection triggers, UUIDv5 keys that merge duplicates across offline devices, soft-delete tombstones, and row-level security with Sign in with Apple; 110 pgTAP tests.
- Implemented StoreKit 2 subscriptions end to end (7-day trial, context-aware paywall) with JWS-verified transactions and a live entitlement listener handling renewals, refunds, and lapses without deleting user data; live beta purchases.
- Built Cloudflare edge functions (friend and trip invite links that validate codes and hand off to the app, 12-hour cached FX proxy for trip budgets), an App Store Connect JWT client, and 850+ unit and UI tests.

TECHNICAL SKILLS

AI: LLM APIs (Anthropic, OpenAI), evals, LLM-as-judge, RAG, MCP, prompt design, structured data (JSON-LD)
Languages: Python, TypeScript, Swift, SQL, JavaScript, PHP, Java, C/C++
Backend & Data: PostgreSQL (RLS, triggers), Supabase, Node.js, Cloudflare Workers, REST, OAuth, JWT
Web, Mobile & DevOps: Next.js, React, SwiftUI | GitHub Actions CI, Vercel, pgTAP, Vitest, XCTest
Certifications: Anthropic: AI Fluency: Framework & Foundations, Claude 101 (2026)