Ian Fleming

JavaScript & TypeScript Engineer | Integration Specialist

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PROFILE

Fullstack JavaScript/TypeScript developer with 2 years production experience building scalable e-commerce systems across international markets. Specialised in multi-platform coordination, event-driven architecture, and eliminating operational bottlenecks through mathematical precision. Track record of zero-downtime deployments and 12+ months production stability on complex integration work. Currently expanding into AI/ML integration through hands-on RAG architecture projects.

SKILLS

Core Technologies: JavaScript, TypeScript, React (Hooks, Context), Next.js 15, Node.js, Remix, HTML5, CSS3, Tailwind CSS

Architecture & Integration: Event-driven architecture, REST/GraphQL APIs, multi-platform coordination, real-time systems, proportional allocation algorithms, production system design

AI & Modern Stack: RAG architecture, vector embeddings, OpenAI API, Pinecone vector database, PostgreSQL (Neon)

E-commerce: Shopify ecosystem (Liquid, APIs, checkout extensions, Shopify Functions, app development), Rebuy Smart Cart, international multi-store deployments

Tooling & Practices: Vitest, Playwright, Git, Figma-to-code, A/B testing, GA4, Microsoft Ads, Agile/Scrum

Languages: English (fluent), German (B1)

EXPERIENCE

Bears with Benefits | *Fullstack Shopify Developer* | Feb 2024 – Present

- Architected and deployed production cart synchronisation engine across 6 international storefronts. Built event-driven coordination layer (RebuyEventManager + RebuyUtils) handling 7+ combinable discount types across Shopify platform, Rebuy Smart Cart, and manual input — with proportional allocation algorithms and state signature tracking for <100ms update latency. 12+ months stable, zero critical incidents, eliminated recurring support tickets about pricing discrepancies.
- Developed full-stack progressive discount application (Remix, Shopify Functions, GraphQL, Neon Postgres) enabling dynamic tiered discounting with merchant self-service UI.
- Implemented production checkout customisations: fraud prevention validation, payment method filtering, A/B-tested delivery options, React-based UI extensions for real-time discount visualisation.
- Led infrastructure improvements: geolocation-aware redirect system (Vercel Edge Functions) for EU packaging QR codes, analytics redesign coordinating GA4 and Microsoft Ads across international markets, full site redesign from Figma to production code.

Grünecker Patent- und Rechtsanwälte | *Legal Administrative Specialist* | 2017 – Jan 2024

- Coordinated formal processes for international IP applications across multiple jurisdictions — deadline management, compliance, and client communication at scale.

The Keg Bar, Munich | *Bar Manager* | 2015 – 2017

The Book Centre, Waterford | *Book Department Employee,* Weekend *Manager* | 2008 – 2014

FEATURED WORK

Cart Discount Coordination Engine *(Professional)*

Event-driven system coordinating complex discount logic across 6 international Shopify storefronts. Modular architecture with centralised event coordination (RebuyEventManager), shared utility layer (RebuyUtils), and specialised handlers for free gifts, multiples promotions (3-for-2, 4-for-3), automated discounts, URL codes, and bundle builder. Proportional allocation with two-pass rounding reconciliation ensures subtotal accuracy. State signature tracking prevents unnecessary DOM updates. Platform-aware mode detection defers to Shopify's checkout-level logic where appropriate, applying custom preview logic only where gaps exist.

Technology: JavaScript (ES6+), Shopify/Rebuy/DOM APIs, Event-Driven Architecture

Documentation: https://github.com/ianfleming464/cart-discount-coordination-engine-documentation

Tried & Tweaked — Family Recipe Manager *(Side Project)*

Full-stack recipe management application, created for my family's recipes Intelligent ingredient scaling parses structured quantities while preserving qualitative measurements. PostgreSQL schema with Neon serverless, image upload, tag-based AND-logic search, full auth. Comprehensive test coverage: Vitest unit tests + Playwright E2E. Deployed on Vercel.

Technology: Next.js 15, TypeScript, PostgreSQL (Neon), Tailwind CSS, Vitest, Playwright

Live: https://tried-and-tweaked.vercel.app

GitHub: https://github.com/ianfleming464/tried-and-tweaked

FounderVoice AI *(Side Project)*

RAG-powered content generation system. Ingests up to 100,000 words of existing writing, chunks and embeds content into Pinecone vector database, retrieves stylistically relevant examples at generation time to ground OpenAI completions in the user's established voice. Built to explore production-grade RAG architecture: chunking strategies, embedding pipeline, retrieval tuning, prompt construction.

Technology: Next.js 15, TypeScript, OpenAI API, Pinecone, React

GitHub: https://github.com/ianfleming464/founders-voice-ai-mcp

EDUCATION

- Career Foundry — Fullstack Web Development Certificate (2021)
- University of Limerick — MA Music Technology, First Class Honours (2013)
- University College Cork — BA English & Sociology, 2.1 (2003)
- Published peer-reviewed research: "I Have No Mouth (pts. 1-6) : Introducing Postdigital Spectralism", Leonardo Music Journal, Vol. 24 (2014)