

Anton Risch

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Product-focused software engineer, building developer tools from concept to launch.

Experience

hud.xyz

Jun 2026 – Present

Co-Founder, Product & Engineering | Meta Ray-Ban Display browser simulator

Remote

- Shipped a browser-based simulator for Meta Ray-Ban Display so developers could build and preview their apps. Features a glasses-sized 600×600 display, D-pad-only input, backdrop and capture controls. Solo-built and live at hud.xyz (400+ unique visitors, 1,100 page views).
- Designed the simulator around the glasses' real constraints: every action via focus + Enter, glasses vs 1:1 chrome that swaps without remounting the running app, and additive white-on-black rendering, so preview matches the real input model and display physics.
- Built a same-origin proxy (nginx + service-worker rewrite + hardened WebSocket egress) that loads real apps into the device surface and accepts injected D-pad keystrokes (ordinary iframes can't host third-party sites).

Docfork

May 2025 – May 2026

Co-Founder, Product & Engineering | Up-to-date library docs for AI coding agents (MCP)

Remote

- Coding agents hallucinate APIs against stale training data; Docfork served version-specific library docs over MCP from crawler through dashboard and public catalog, with org-scoped private libraries. The archived public MCP client reached **489** GitHub stars and **~24k** npm downloads, with **~1,000** signups on the platform.
- Indexed GitHub repositories and public websites into Turbopuffer for catalog and version-filtered chunk search, raising judged precision from **26% to 56%** with hybrid keyword + vector ranking.
- Architected a multi-tenant product layer: WorkOS org auth, API keys, and an atomic Redis quota ledger wired to Stripe meters so free vs metered routes and pro-rata limits stayed consistent without overcharging.

Research Projects

Multi-Hop RAG Ablation Study

Oct 2025

MultiHop-RAG | Python, PyTorch, Hugging Face

- Explored whether stronger retrievers and instruct LLMs compose for multi-hop news QA on MultiHop-RAG corpus (609 docs, 2,556 queries) across eight retriever-LLM pipelines. Best system BGE-base + Qwen2-7B at overall F1 0.42; swapping retrievers moved end-to-end F1 by under 1%, concluding that the reader was the bottleneck.
- That reader gap showed up on 301 unanswerable queries: Qwen2 abstained correctly ~77% of the time; Llama-2 hallucinated on 99.3%.

Education

University of Queensland

2023 – 2025

Bachelor of Computer Science, Machine Learning major | GPA: 6.2/7

Brisbane, Australia

Skills

Languages: TypeScript, JavaScript, Python, SQL

Frontend: Figma, React, Next.js, Tailwind CSS, Zustand

Backend: Hono, Turbopuffer, MCP, FastAPI, Redis, Drizzle, MySQL (PlanetScale), SQLite (Turso), WorkOS

Infra: Vercel, GCP Cloud Run, Railway, Cloudflare R2, nginx

AI/ML: RAG, embeddings, PyTorch, Hugging Face