

01 SUMMARY

Software engineer focused on putting AI to work inside real products: agents with human-in-the-loop approval, RAG systems, and the eval suites that keep them honest. Full-stack roots in React/Next.js, mobile, and design systems. Most of the work below runs live, with public repos and repeatable evals.

02 EXPERIENCE

Independent AI Automation Engineer · lab builds, open source & freelance2026 – PRESENT

- > Built **docs-chat**, a "chat with your docs" RAG assistant with cited answers: **27/27 retrieval hit@1** on a 27-question eval, **1.77s median at \$0/query** on the live free-model path. Live demo and public repo.
- > Retrofitted an **AI support copilot** onto an existing admin app in one reviewable PR. Read-only tools auto-execute; every mutation waits for human approval. **30/30 (100%) tool-selection accuracy** on a 30-command eval.
- > Published **tessera-mcp** on npm: an open-source MCP server that gives LLM clients safe access to ops data. Every write defaults to a dry-run preview and only executes on explicit confirm. **23/23 tool-contract tests**.
- > Shipped four more evaluated builds: a **Telegram support agent (30/30 intent routing)**, a browser **voice booking agent (15/15 task completion)**, an **invoice extractor** graded on the public SROIE benchmark (**77.8% field exact-match**), and an **n8n lead-qualification workflow**.

Associate Software Engineer · VIMITEC LLC, full-time hybrid2023 – 2024

- > Built and deployed responsive web applications on the MERN stack, plus Shopify and WordPress builds to client requirements.
- > Owned UI/UX in Figma from wireframes to hi-fi prototypes; managed MongoDB schemas and Cloudflare DNS, security, and caching.

03 SELECTED PROJECTS

BridgeSync · AI progress-tracking SaaS · final-year project (solo), University of Plymouth2026

- > Built solo in 4 months: turns GitHub activity into client-ready progress reports with hybrid rule + LLM matching (**93.3% rule-match accuracy**, hand-labelled set). **1,809 passing tests, 46 routes**, Stripe subscription billing. Next.js 16, Convex, Clerk.

CFX · forex-signals platform · product design + design system (solo)2026

- > Two mobile apps (user + admin) from one tokenized design system: **40+ screens** in Figma, **39 typed React components**, 17-screen interactive prototype kit.

04 EDUCATION & WRITING

BSc (Hons) Software Engineering · University of Plymouth2021 – PRESENT (FINAL YEAR)

- > Public eval write-ups at **thecoderbtw.vercel.app/writing**, including "27/27 retrieval hit@1 without a vector database" and "Why I publish 77.8% instead of rounding up."

05 SKILLS

AI / LLM	Agents & tool-calling, RAG, eval harnesses & golden sets, human-in-the-loop patterns, Model Context Protocol (MCP), n8n, prompt engineering
AI SDKS	Vercel AI SDK, Anthropic SDK, OpenAI SDK · Claude, Gemini, and GPT model families
LANGUAGES	TypeScript/JavaScript, Python, Java, C#, C/C++, Rust, SQL
WEB & MOBILE	Next.js/React, React Native/Expo, Node.js, Convex, Firebase, PostgreSQL, MongoDB, libSQL/Turso, Stripe, Clerk
DESIGN	Figma (wireframes to hi-fi), design tokens & component systems, UI/UX handoff
PRACTICES	Git/GitHub, CI-gated evals & tests, third-party benchmarks (SROIE), Agile/Scrum