

# Jack McGregor

SOFTWARE ENGINEER

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## PROFESSIONAL SUMMARY

Software engineer with 9 years shipping products for banks, agencies, and small teams. Most of my career has been in financial services: pension and fiduciary tools, credit-risk analytics used by Revolut, Izola Bank, and BNF Bank, and an agency finance platform covering cashflow, KPIs, and live accounting sync. I lead frontend, testing, and delivery on small teams, and I pick up backend, integrations, and DevOps when that is what the work needs. Graphic design and UX background. I mentor when I can.

## TECHNICAL SKILLS

|                  |                                                                                                                  |
|------------------|------------------------------------------------------------------------------------------------------------------|
| Languages        | TypeScript, JavaScript, SQL, HTML, CSS                                                                           |
| Frontend         | React, Next.js, Tailwind CSS, shadcn/ui, AG Grid, Chart.js, Leaflet, Three.js                                    |
| Backend          | Node.js, Bun, Hono, Next.js Route Handlers, Auth.js, Mastra                                                      |
| Data             | PostgreSQL, MongoDB, Drizzle ORM, Neon, Payload CMS, GraphQL, Contentful                                         |
| Cloud & delivery | Vercel, AWS (Bedrock, AgentCore, CDK, DocumentDB), Cloudflare Pages and Workers, Railway, Docker, GitHub Actions |
| Integrations     | Xero, QuickBooks Online, Stripe, Discord IAP, TWICE Commerce, BigCommerce, Auth.js                               |
| Testing          | Playwright, React Testing Library, Bun test, Cypress, Jest                                                       |

## PROFESSIONAL EXPERIENCE

### Lead Software Engineer

Dec 2022 – Present

#### Antler Digital

London, United Kingdom (remote)

Startup studio. Team of 3–4. I own frontend, testing, and a large share of delivery across client and internal products.

#### Common Thread

2026

Finance operating system for agencies. Turns project, invoice, and accounting data into cashflow, runway, and allocation views.

- Built the product surface for cashflow forecasting, KPI dashboards, invoicing waterfalls, pipeline, operating expenses, and a weekly resource planner.
- Shipped a read-only Xero sync (invoices, payments, reports, tax obligations) and a provider-neutral trunk so QuickBooks Online could follow the same ingest path.
- Added scenario forecasting, FY-aware period controls, P&L workbook export, and an admin app for organisation onboarding.
- Stack: Next.js, TypeScript, Drizzle, PostgreSQL/Neon, Bun, Xero, QuickBooks.

#### Wiserfunding

2023 – Present

Credit-risk and portfolio analytics for lenders and investors. Clients include Revolut, Izola Bank, and BNF Bank. Lead frontend engineer for 3+ years.

- Built the home dashboard as a widget board: sector risk heatmap, risk profile over time, macro environment, and recent assessments, with BFF caching for clustered reports.
- Developed financial report and portfolio visualisations: choropleth maps, Gantt charts, packed bubbles, distribution charts, and AG Grid Enterprise views for comparison, custom charting, and export.
- Shipped document intake for CSV/Excel and OCR/FX flows, including reporting-currency controls and WiserAI upload types.
- Added Open Sanctions and legal-event signals to reports and portfolio alerts, plus NUTS regional concentration drill-down.
- Built a multi-environment, multi-role test suite (Playwright, React Testing Library, Jest). Rewrote about 75% of the suite for Bun (about 6x faster than Jest) and a Playwright ID selector used by the backend team.
- Impact: faster, safer releases, less manual data entry, and clearer comparative analysis for credit decisions.

#### PEW

2026

Browser voxel FPS shipped as a Discord Activity. Custom Three.js engine, validated-relay multiplayer, Cloudflare and Railway hosting.

- Built shop and wallet flows: Discord IAP for Token and Coin packs, Stripe Checkout for web, and coin spend on loadout skips.
- Added playable maps (Sky Bridge, Dam), character and loadout appearance, and a public marketing site with live gameplay in the hero.
- Helped move the game server onto Bun.serve and added a local Wrangler path for staging Pages publishes.
- Stack: Vite, React, TypeScript, Three.js, Bun, Discord SDK, Stripe, Cloudflare.

#### Dezaan (ofi)

2024 – Present

Global cocoa and chocolate brand. Multilingual marketing site plus a gated product portal and a separate assistant service.

- Cut the Gatsby marketing build from 12 minutes to 4 and tightened a large, locale-heavy codebase (en, de, ja, id, fr, en-GB, en-US).
- Leading the move to Next.js App Router with route and SEO parity against the live Gatsby site.
- Built the portal assistant as its own Mastra service: Contentful GraphQL tools, MCP with a write allowlist, DocumentDB RAG (Voyage embeddings), citation-domain rules, rate limits, and a 36-question golden-set eval in CI.
- Designed and ran an AWS AgentCore POC behind the portal: CDK, Bedrock Claude and Nova, a private DocumentDB cluster, and an MCP gateway Lambda.
- Added Payload CMS, browser-bound email OTP, domain-gated access, and approval onboarding for the portal.

#### One Tribe

2022 – Present

Carbon marketplace and event-impact reporting. Marketplace, subscriptions, and a live events calculator used for stand, meal, and flight emissions.

- Rebuilt the marketplace in about 3 months: 7 UI libraries down to Tailwind, one state system (Recoil), SSR pages, and Auth.js.
- Replaced a loss-making PayPal setup with Stripe. Peak volume over £100k/month, no customer downtime.
- Built the BigCommerce client portal (Firebase functions, later Xata) and a Next.js admin so non-Stripe specialists could manage merchants and subscriptions.

- Helped migrate Firebase to Xata with 1 day of downtime, no revenue loss, and only minor UI bugs.
- Built the events carbon calculator (stands, meals, flights, PDF submissions) and, in 2026, a Bun monorepo for platform, impact pages, admin, custom stats, and carbon-report email sharing.
- Added Bun unit tests and Playwright E2E in CI (CircleCI, then GitHub Actions). Financially sensitive code written with TDD.

### Capital Carboot

2025 – 2026

Booking platform for London car-boot and antiques markets. Sellers book pitches. Buyers buy entry tickets.

- Built the core booking product on Next.js 15 and Payload CMS 3: role-based admin/seller/buyer access, Stripe payments and webhooks, QR and calendar confirmations, and attendee CSV export.
- Added sold-quantity tracking, early-setup add-ons, Google Calendar receipts, and Turnstile-protected forms.
- Shipped Capital Antiques Market as a second branded site on the same MongoDB codebase, with its own emails, settings, seed data, and admin.

### Sports Icon

NFT marketplace for iconic sporting moments. Next.js, Tailwind CSS, Dapper for auth and trading.

### Co-Founder

2025 – Present

#### Lowkey

United Kingdom

NFC and QR tags for rental equipment in high-traffic shops (ski hire first).

- Built the platform: public NFC scan pages, shop console, bookings, and a week-view assignment Gantt synced from POS inventory.
- Shipped TWICE Commerce webhooks (auto-provisioned) and an Easyrent poll sync, including unused tag ranges and ingest-gap reporting.
- Designed a phone-first rack pairing loop (camera and manual tabs) so staff can bind physical tags to inventory on the shop floor.
- Added per-shop branding on scan pages, de/it locale support, and a Hono/Bun scan API on Vercel.
- Stack: Next.js, Hono, Bun, PostgreSQL, TWICE, Easyrent, Zod, i18n.

### Founder

Oct 2022 – Present

#### Manyana Dev

United Kingdom

Small studio for web and product work. manyana.dev

### Frontend Developer

Mar 2020 – Dec 2021

#### Coveo Solutions Inc.

Montreal, Quebec, Canada

AI search platform. Admin console used by tens of thousands of users across hundreds of clients.

- Built a URL-driven multi-step onboarding form and an end-to-end Cypress suite for the admin panel (Turbo monorepo).
- One of three engineers on Vapor, an internal UI library with CircleCI and SonarQube. Every component tested.
- Impact: faster feature onboarding and a consistent component set across teams.

### Junior Fullstack JavaScript Engineer

Jan 2019 – Dec 2019

#### Cardano Group

London, United Kingdom

Pension and fiduciary fintech (not the blockchain).

- Built features for Trellis, an internal tool that pulled data-lake records into portfolio views for fund managers.

### Software Engineering Instructor

Nov 2017 – Jan 2019

#### Sparta Global

Richmond, United Kingdom

Three-month intensive courses for career changers, from HTML/CSS/JS to fullstack apps.

- Led Circle of Intrapreneurs from design to a working social app, and a regression suite for Abbey Road Studios' recording platform.
- Kept course materials, exercises, and projects current across multiple cohorts.

### Frontend Developer

Jul 2017 – Oct 2017

#### WCRS (Apple)

London, United Kingdom (on-site at Apple HQ, Silicon Valley, ahead of the 2017 launch)

NDA team on that year's Apple marketing cycle.

- Pixel-accurate HTML and CSS across dozens of European locales, plus occasional JavaScript fixes.

*Reference available on request.*

### COMMUNITY

**CodeFirstGirls** — Mentor and course writer (2018–2019). Taught about four free 4- and 6-month web courses. Contracted to write the next set of materials.

**Codebar** — Student, then mentor (2017–2019). Monthly expert/novice pairing. Went from asking for help to giving it.

**Coveo Blitz** — Hackathon mentor (2018–2019).

**Colour In Tech** — Workshop presenter (2018). Two-hour workshop for about 100 teenagers.

### EDUCATION

#### General Assembly

Mar 2017 – Jun 2017

London

12-week software engineering bootcamp. Ruby, Rails, JavaScript, React, Node, SQL, Git.

#### University of Leeds

Sep 2008 – Jun 2011

BA (Hons) Geography