// About me and my CV

Paul Cooper

Software developer

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I build software for online retailers in C#/.NET, TypeScript and SQL. BusinessTools, the warehouse and customer management system I co-developed, has processed more than 10 million orders from Amazon, eBay, Etsy, Shopify and retailers' own web shops. I also build Shopify apps, and fast, well-tested websites for small businesses.

Most of my work has been on systems my two-person team designed and built from end to end: BusinessTools, which takes a retailer's orders from every marketplace through picking, packing and dispatch, and a platform for Shopify apps with its own plugin host, data layer, cache and TypeScript UI framework. Building that plumbing ourselves means I know the problems that ASP.NET, ORMs and front-end frameworks solve, because we've had to solve them.

I also work with mainstream tools: Astro, TypeScript, Cloudflare Workers, Playwright and GitHub Actions.

Experience

Co-founder and developer · Yojutsu

Designing, building and supporting Yojutsu's software for online retailers, from the database to the browser.

- Building BusinessTools and the Shopify apps (below) in a two-person team, working directly with the retailers who use them.
- Working across the whole stack: database design, Windows services, marketplace APIs, web front ends, deployment and support.

Projects

BusinessTools · Yojutsu

A complete warehouse and customer management system for online retailers. It brings in orders from Amazon, eBay, Etsy, Shopify and retailers' own web shops, runs picking, packing and dispatch in the warehouse, keeps stock and listings in step across every channel, and keeps customer records in one place. It has processed more than 10 million orders, worth over £100 million in sales to the retailers who use it.

- **Full marketplace integrations:** Amazon, eBay, Etsy and Shopify, plus retailers' own web shops. Each integration handles the whole order lifecycle, from loading new orders to confirming dispatch, and keeps stock levels and listings up to date. Each runs as its own service, working within that platform's rate limits.
- **Picking:** a picking system that runs on tablets with barcode scanners. Orders from every channel are combined into one pick, with a route planned round the warehouse.
- **Packing and dispatch:** packing jobs that choose the delivery service and print the label, with delivery-label integrations for Royal Mail, Parcelforce, DPD, DHL, Evri, Amazon Shipping and Amazon Seller Fulfilled Prime, plus click-and-collect. Labels and invoices print through PrinterClient (below).
- **Stock and products:** warehouse locations, stock allocated per channel, purchasing from suppliers, stock reports, and product listings managed in one place for every channel.

- **Customers:** customer records with notes and account holds, and message templates for writing to customers.
- **Recent work:** moving Amazon order import to Amazon's 2026 Orders API, adding Easy Ship, and renewing eBay account tokens from inside the app.

PrinterClient · Yojutsu

Prints custom invoices and delivery labels straight from the browser to the warehouse's printers, with no print dialogs. It's built into BusinessTools, and also comes as a standalone package for small eBay shops that just want their invoices and labels printed.

- **How it works:** a Windows service with a system-tray app and its own installer, plus a Firefox extension that passes print jobs from the web page to it through native messaging.
- **Two ways to use it:** built into BusinessTools for whole warehouses, or as the standalone package, which pairs it with a slimmed-down BusinessTools that loads a shop's eBay orders, without the picking and packing modules.

Shopify apps - Reviews and Wishlist · Yojutsu

Two Shopify apps on a .NET platform built from scratch. In development; they launch once feature-complete.

- **Reviews:** product reviews and surveys with 12 question types, a choice of rating symbols, moderation, CSV import, Google rich-result data, and review requests sent through Shopify Flow.
- **Wishlist:** saved products for signed-in and guest shoppers, kept in step across browser tabs.
- **The platform:** its own plugin host, a SQL data layer over MariaDB, a dependency-tracked cache, and a TypeScript UI framework with its own build tool. There's no ASP.NET MVC, Entity Framework or React: each piece was built for the job.
- **Shopify integration:** an embedded admin (App Bridge session tokens), the GraphQL Admin API, theme app extension blocks, an app proxy, GDPR webhooks and Shopify's managed pricing plans.

Marketplace margin calculator · Yojutsu

Works out the profit on a sale after eBay, Amazon and Shopify fees, as a web page and as an Excel workbook, both built from one JavaScript engine.

copperrobot.co.uk

This site. Astro and TypeScript on Cloudflare Workers, with every change typechecked and tested on desktop and phone before it can deploy.

Websites for small businesses

- Protect Flat Roofing Specialists: A fast, photo-led website for a family-run flat roofer, which the owner can update from his phone.
- Daydreaming Prints: A website for a lino-print artist - a bold feed of her prints, sketches, writing and things for sale, which she updates from her phone.
- ChuffList: A joke site that logs every time someone on British television says they're "chuffed", and rules on whether they really were - in five eras of web design.
- MarginCheck: A free margin calculator for UK sellers that shows the profit on eBay, Amazon, Shopify and Etsy after every fee, with what-if sliders, and keeps every figure in the seller's own browser.

Shopify stores

- Alfie Francis: A Shopify store designed and set up for a UK home and garden décor retailer, now on my own Shopify theme, with live stock counts, a dispatch countdown, and orders flowing straight into BusinessTools.
- Darthome: A Shopify store for a UK homeware retailer, with custom sections built into its theme and orders flowing into BusinessTools.

- MK Dons Supporters Association: A Shopify site for a football supporters' association, with membership, a shop, news and match reports, and pages on the club's squads, fixtures and history, all in one style.

Integrations

All built into BusinessTools. The Shopify apps use Shopify's API too.

Marketplaces: **Amazon Selling Partner API**: Orders, Feeds, Listings Items, Merchant Fulfillment (Seller Fulfilled Prime), Shipping (Amazon Shipping), External Fulfillment (Easy Ship), and Tokens for buyers' details; **eBay**: the Trading API, plus the Notification and Identity APIs; **Etsy**: Open API v3, and v2 before it; **Shopify**: the Admin GraphQL API

Couriers, through their APIs: **Royal Mail**: the Click & Drop API, Shipping API v4, and the older Shipping API v2; **Parcelforce**: ExpressLink; **DX**: the despatch API; **UPS**: the Shipping API; **Amazon Shipping**: labels through the Selling Partner API

Couriers, built to their label and manifest specifications: **DPD**: routing data, labels and manifests; **DPD Local** (formerly Interlink Express): routing data, labels and manifests; **Evri** (formerly Hermes): routing data, labels and pre-advice files; **DHL Parcel UK** (formerly UK Mail): 2D-barcode labels and manifests

Address data: **Royal Mail Postcode Address File (PAF)**: UK addresses, for lookups

Skills

Languages

TypeScript, C#, JavaScript, SQL, HTML and CSS, PHP, Bash

Back end

.NET, Node.js, Cloudflare Workers

Shopify and the marketplaces

Shopify apps, Shopify Admin GraphQL API, Shopify themes, Liquid, Amazon Selling Partner API, eBay APIs, Etsy API, UK courier APIs

Testing and quality

GitHub Actions, Playwright, Vitest, Lighthouse CI, Content-Security-Policy

Websites and front end

Astro, Zod, Fontsource, Pages CMS, WebExtensions

Data

MariaDB

Hosting and cloud services

Cloudflare Turnstile, Cloudflare Email Routing, Cloudflare Web Analytics, IONOS web hosting, Apache (.htaccess)

Tools

Git and GitHub, Subversion, Visual Studio, VS Code, Wrangler

Exploring: Godot (a game engine, for experiments in C#).