

Paul Boucherat

paul@bouch.dev | 07711 822 499 | Nottingham, UK

gitlab.com/articat1066 | bouch.pages.dev

Applied AI engineer with an operations/product background, shipping Python, TypeScript, and MCP-based systems for real operational workflows across scheduling, property, and trading.

CURRENT ROLE

Independent Applied AI Engineer

Self-directed products and selected client work — Nottingham, UK — 2023 – Present

This has been sustained independent engineering work on deployed AI systems spanning packaged Python services, publicly distributed MCP tooling with live hosted usage, FastAPI APIs, and customer-facing applications with auth, billing, observability, and deployment support.

PyP6Xer MCP Server — Primavera P6 Workflow Tooling

Live — PyPI — Fly.io — 22-tool MCP server

Built a Python MCP server for Primavera P6 XER files with 22 tools for critical-path analysis, schedule-quality checks, progress tracking, and earned value reporting. Validated it on a live 6,000-activity railway schedule, added automated tests for tool, prompt, and resource registration, and packaged it for Docker and Fly.io deployment across stdio and HTTP transports.

Property Intelligence Platform — Shared Core + Customer Workflows

Live — Fly.io — PyPI — FastAPI — CLI — MCP

Built a typed Python property-data platform that unifies Land Registry, EPC, Rightmove, Companies House, and planning data behind one shared core, exposed through PyPI, FastAPI, CLI, and MCP. Added Prometheus metrics and live integration tests, then extended it into estate-agent workflows, including a viewing and mileage app and a property-description workflow used in day-to-day work.

PineSmith — AI Script Application

Fly.io — React + FastAPI — Supabase — Stripe

Built Pinesmith, a FastAPI/React application for AI-assisted Pine Script v6 generation, editing, linting, review, and chat. Added Supabase auth, Stripe subscriptions, template delivery, streaming chat, with rate limits and health checks around the service.

REPEATABLE PATTERNS

Applied AI Systems

Built Python and TypeScript systems around structured outputs, streaming responses, auth, billing, and domain workflows in scheduling, property, and trading.

MCP Servers & Interfaces

Built and deployed MCP servers, agent-facing tools, and skills for Primavera P6, property data, Pine Script, iRacing, and MT5, with tools, prompts, resources, typed schemas, documentation retrieval, and stdio/HTTP transports.

Workflow Deployment

Repeated pattern: map a fragmented workflow, identify the durable backend and interface layer, then ship it as an API, MCP server, internal tool, or customer-facing application with tests, metrics, and health checks.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, SQL

AI Systems: OpenAI and Anthropic APIs, Agents SDKs, PydanticAI, MCP/MCP Apps, multimodal workflows, structured outputs

Backend & UI: FastAPI, Pydantic, Next.js, React, Supabase, PostgreSQL

Deployment & Observability: Fly.io, Docker, Stripe, Cloudflare, Prometheus, Logfire, Git

PRIOR CAREER — TECHNICAL PRODUCT & OPERATIONS

Pre-software career in hardware product and operations roles with customer/vendor-facing responsibility, technical-commercial communication, and commercial ownership.

2016 – 2023: Family caregiving and bereavement responsibilities, travel, and property investment before returning through self-directed software and AI engineering.

Desktop Product Manager

Stone Computers, Staffordshire — July 2013 – April 2016

Owned the desktop product line, planning against a £50m gross profit target and 80k annual units. Led roadmap and supplier decisions. Supported university, NHS, and public-sector opportunities as the technical bridge between sales, purchasing, R&D, and the customer, translating requirements into specifications, tender input, and rollout decisions. Also took on the Server PM role on an interim basis (Oct 2014 – Feb 2015).

Service Buyer

Stone Computers, Staffordshire — July 2012 – July 2013

Improved service operations by reducing Jobs on Hold from 13% to 2.5%. Analysed £1.8m service stock, identified 51% obsolete, and reduced the figure to £1m. Managed supplier relationships and service delivery issues across major global IT vendors.

Undergraduate Placement

Research Machines, Oxfordshire — July 2010 – August 2011

Worked in IT supply chain operations, managed supplier SLAs/KPIs, and developed business cases for new products presented to directors.

EDUCATION

BA (Hons) Business Management and Operations — 2:1

Nottingham Trent University, 2008 – 2012

Operations Management, Supply Chain, Competitive Strategy, Innovation

A Level Law (C), BTEC Business (Distinction/Merit) — West Hertfordshire College