# Louis Goldsbrough

Lead Engineer · Engineering management · AI adoption and agentic development

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## PROFILE

Lead Engineer at the Home Office with 11 years in software, from an HSBC apprenticeship to leading engineering across multiple teams, with line management and workforce planning. I grew an engineering capability from 2 developers to ~20 engineers across 3 teams, hiring around 20 people, led a product from Alpha into live service and founded a 200+ member engineering community. I've led a new technology into an organisation before (automation at Barnsley Council) and have championed AI adoption at the Home Office through Copilot prototyping and AI walkthroughs. Outside work, I direct Claude and GPT coding agents every day and have shipped four products with them, including a live client booking system and an open-source desktop app.

## CORE SKILLS

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|---|---|
| **Leadership** | Multi-team engineering leadership · line management · coaching and development plans · performance management · hiring and technical interviewing · workforce planning |
| **AI leadership** | AI adoption through Copilot prototyping and AI walkthroughs · daily agentic development with Claude Code and OpenAI Codex · agent context and memory files · acceptance checks and review before release · Claude vs GPT build comparison · MCP |
| **Delivery** | Agile (Scrum, Kanban) · engineering standards and quality gates · peer review · CI/CD · release management · live service and incidents · vulnerability prioritisation · stakeholder management · budget oversight |
| **Hands-on** | C# · Python · JavaScript · SQL · Azure Functions · Logic Apps · web APIs · Azure DevOps · UiPath · Blue Prism · Oracle Integration Cloud · earlier COBOL, JCL and DB2 |
| **Leading teams on** | Dynamics 365 · Power Platform · Java · React · AWS · Kubernetes |

## EXPERIENCE

**Lead Engineer** · Home Office — November 2023 – present

- Grew an engineering capability from 2 developers to ~20 engineers across 3 delivery teams, hiring around 20 people, including DevOps, and bringing testing into delivery.
- Now lead engineering across multiple teams alongside Product, Delivery, Architecture and DevOps, covering line management, coaching, hiring and workforce planning.
- Delivered an Alpha on schedule and led a product into live service, designing the overall delivery approach with specialist engineers implementing it.
- Introduced the engineering lifecycle the teams work to: technical elaboration, coding standards, checklist-based peer review, test evidence and sign-off before release.
- Championed AI adoption in the teams, encouraging spikes and prototyping with Microsoft Copilot on the Power Platform to prepare for upcoming technology.
- Founded a Microsoft engineering community of 200+ members across engineering, architecture and product, running technical sessions with Microsoft and AI walkthroughs.
- Designed a delivery model that let multiple teams build in parallel on one shared Microsoft platform, and reviewed it with Microsoft engineering specialists.
- Brought maintenance, platform upgrades and security vulnerabilities into sprint planning, with the highest-risk fixes prioritised for the next sprint.

**Automation Developer** · Home Office — June 2022 – November 2023

Associate Automation Developer until June 2023

- Took over an unfinished UiPath automation as development lead, reworked the build and released it through Azure DevOps CI/CD, making it run more reliably end to end.
- Replaced a complex Logic App with a C# Azure Function that calculates data once a day and caches it, cutting processing time.

- Built business automations in C#, Azure Functions and Logic Apps, including automated date and SLA calculations.
- Took on leadership in a 3–4 developer Oracle Integration Cloud team: designed complex process flows, handled incidents, trained junior developers and mentored students in Python.

**Robotic Process Automation Developer / Acting Lead** · Barnsley Council June 2020 – June 2022

- Led the council's adoption of robotic process automation: wrote the automation strategy, integrated Blue Prism and set up the design, testing and release practices behind it.
- Introduced Agile-style delivery and won stakeholder backing with demos, videos and roadmaps, helping secure further investment in automation.

**ICT Officer** · Barnsley Council February 2019 – June 2020

- Rationalised 1,000+ applications into ~150 software solutions during a technology refresh.
- Gathered requirements, managed a temporary UAT team, introduced a controlled software-request and review process and advised on go/no-go rollout decisions.

**Software Development Engineer (Apprenticeship)** · HSBC November 2015 – February 2019

- Joined through a software development apprenticeship. Developed, tested and maintained back-end banking systems in COBOL, DB2 and JCL on IBM mainframe.
- Worked across the full lifecycle in Agile teams: changes, testing, implementation, and business and technical documentation.

**Earlier** Customer Service Advisor, Capita (2014–2015), public-service contact centre.

## AGENTIC DEVELOPMENT, OUTSIDE WORK

I direct AI coding agents to ship my own products. I own the idea, requirements, product and technical decisions, testing and releases; the agents do much of the implementation, working from shared context files, small workstreams and acceptance checks.

**Vault Barbershop** · Live client booking system vaultbarbershop.co.uk

Online booking for a multi-barber shop, with customer, barber and admin roles, working hours, blocked time, barber calendars and confirmation emails. I built and deployed it and maintain it in live use, including production bug fixes. Next.js, React, Supabase, Resend.

**Paracosm Studio** · Worldbuilding platform, public alpha paracosmstudio.io

Generated planets and star systems, map and terrain editing, civilisations, a wiki and story tools, with free and paid plans. Stores editable 3D world data as compact JSON and rebuilds it in the browser. React, TypeScript, Supabase.

**Contour Studio** · Free and open source (MIT) contour-studio.app

Turns real terrain, roads, waterways and buildings into 3D-printable map art, shipped as macOS and Windows desktop apps. React, TypeScript, MapLibre, Three.js, Python.

**Mosaic** · Private AI workspace

My personal knowledge graph of people, projects and notes, which AI assistants such as ChatGPT use through MCP with owner-controlled access, connected to Home Assistant. React, Cloudflare Workers, D1, MCP.

**Motion Studio: Claude vs GPT** · Published build comparison Read the write-up

Built the same animation editor twice from one prompt, once with Claude and once with GPT, then made films with both and wrote up what each got right and wrong. React, TypeScript.

Also: Power X Tanning (live client website with an owner content editor), HarMesh (AI-assisted 3D modelling into editable Blender models) and the interactive 3D office on my portfolio.

All projects: https://louisgoldsbrough.co.uk/creative/

## QUALIFICATIONS

**CMI Level 6 Certificate in Management & Leadership** · Brighton School of Business and Management · 2021

**CMI Level 4 Certificate in Management & Leadership** · Brighton School of Business and Management · 2021

**ITIL Foundation** · PeopleCert · 2019

**Level 3 Extended Diploma in Information Technology** · HSBC apprenticeship (2015–2017) and Barnsley College (2012–2014)