

Stephen Cox

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Location: Reading/London, UK

References available by request

EXPERIENCE

R&D Manager

Push Technology/DiffusionData Ltd April 2026-present

- Oversaw 2 engineering teams, and accountable for build infrastructure and product delivery
- Developed strategy for generative AI tool use across the engineering team; encouraging upskilling and accelerating refactoring without excessive token spend

Senior Software Engineer

Push Technology/DiffusionData Ltd 2022-2026

- Led a small team, including contractors, overseeing all frontend-related development at the company
- Chaired internal CI/CD guild and pioneered migration from a legacy Jenkins system to GitLab CI, reducing maintenance burden and encouraging developer ownership of build systems
- Drove frontend stack consolidation, settling on Vue3 SFC with composition API and TypeScript, improving consistency and reducing onboarding time
- Implemented ticketing migration from FogBugz to Jira Cloud, cutting costs while preserving 12 years of context
- Deployed a RAG-based documentation AI search system in early 2024 (Python FastAPI backend using OpenAI embeddings and models)
- Led DX-focused improvements, such as a redesign of our documentation hub with improved search
- Delivered library migration tasks and internal scripts at twice the previous rate using Claude Code

Software Developer

Wallingford HydroSolutions Ltd 2021-2022

- Deployed CI pipelines for existing .NET and Fortran codebases using Azure CI and Ansible
- Worked on Angular-based frontends for GIS mapping products
- Developed a modular billing calculator for layered geographic datasets

Software Engineer

Push Technology/DiffusionData Ltd 2019-2021

- Responsible for the administrative/developer console for the company's high performance pub-sub middleware
- Re-developed the legacy Knockout.js codebase in Vue2 and TypeScript within a single product release cycle
- Enabled component reuse between the management console and SaaS self-management frontends by consolidating technology stacks
- Responsible for addition of new features through entire stack, including Java backend

- Implemented validation of formatted financial data (XBRL) against several different regulations
- Delivered features on a C# ASP.NET web application for graphically tagging HTML documents with inline XBRL metadata
- Planned and worked on migration of a .NET Framework monolith to .NET Core microservices

EDUCATION

MEng Computer Science (1st class honours)

University of Southampton 2011-2015

- Developed a distributed system for orchestrating speech recognition jobs (group project)
- Evolved cryptographic hash function candidates on a GPU using a genetic algorithm (dissertation)
- Took optional modules on graphics and computational finance

LANGUAGES, TOOLS AND PRACTICES

I enjoy picking up new frameworks and practices. Here are some that I'm already comfortable with:

- TypeScript, JavaScript, Java, C#, Python
- Vue (2 & 3), React, GWT
- Claude Code, GitHub Copilot, Ollama
- Maven, Gradle, Ant, NPM, Yarn, Pip, etc
- Git, GitLab CI, Jenkins, Docker, Kubernetes, Helm
- Agile (Scrum), Test-Driven Development (TDD), Continuous Integration

ABOUT ME

Outside of work, I enjoy long-distance walking, post-punk music and Ethiopian cooking. I volunteer yearly at the Twyford Beer Festival.