

# Paul Sweeney

## DEVOPS & PLATFORM ENGINEERING LEAD

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### PROFILE

Experienced engineering professional with a long track record of building and running reliable delivery platforms. Strong background in modernising legacy systems, supporting cloud adoption, and putting practical engineering platforms in place that teams actually use. Acknowledged as fixing hard technical problems, improving stability, and providing clear technical direction when things are unclear. Brings hands-on experience across build, test, deployment, observability, and release, and works closely with engineers to raise standards and introduce automation that reduces operational effort and long-term cost.

### CORE COMPETENCIES/TECHNICAL PROFICIENCIES

**DevOps & Cloud Platforms:** Kubernetes, K8S, AKS, GKE, KubeVela, Docker, Azure DevOps, Git, Helm, Crossplane, Linux, Ubuntu

**Automation & Scripting:** Terraform, Ansible, Bash, PowerShell, Python, Scripting, CI/CD, Octopus Deploy, TeamCity, GoCD

**Monitoring & Observability:** Prometheus, Grafana, Alertmanager, Datadog, Greylog

**Developer Platforms / IDP/ DevEx:** Backstage, Internal Developer Platforms, Platform Engineering, AgenticAI, Agentic Coding

**Programming & Engineering:** C#, .NET, .NET Core, ASP.NET, Multithreading, SQL, XML, Web Services, C++, C, Fortran, SaaS

**Networks & Infrastructure:** Cisco, CCNA, WAN, MPLS, BGP, VPN, IPSEC, SNMP

### PROFESSIONAL EXPERIENCE

**TravelRepublic, Part of Emirates Group, Remote**

Jan 2013 – Jan 2026

**Senior Developer, DevOps Platform Engineering Lead (Aug 2019 – Jan 2026)**

Lead strategic direction across platform engineering landscape, guiding technical decision-making, modernisation initiatives, and engineering alignment across multi-cloud environments. Manage Kubernetes platforms across six self-managed clusters, ensuring automated provisioning, resilience patterns, and consistent operational integrity through advanced observability tooling. Direct release governance by defining branching strategy, communication channels, and pipeline automation while stewarding broader deployment estate through TeamCity, GoCD, and Octopus systems. Strengthen architecture foundations through systematic refactoring, unit-test enablement, and code-base modernisation, including significant migration of legacy components into C#.

#### Key Contributions:

- Championed early adoption of AgenticAI Coding by producing practical introductory material and offering hands-on guidance, demonstrating to colleagues and managers the time savings and quality improvements possible.
- Reduced operational complexity through consolidation of legacy deployment tooling into a more coherent & maintainable platform, gaining modern features and reducing contact points required by developers.
- Elevated software quality by restructuring critical components to support unit testing and by migrating over 250,000 lines of code from VB.NET to C#, reducing dependency on legacy skillsets and increasing maintainability.
- Established a unified standard pipeline improving DevOps consistency across Linux & Windows build, deploy & monitoring processes, allowing over 100 workloads to go from first local code to AKS/GKE multicloud Kubernetes production deploy in minutes or hours rather than previous weeks or months of unnecessary learning curve.
- Protected business continuity during lockdown by adapting a customer self-service automated booking-cancellation feature into a bulk facility, allowing the processing of 10,000 bookings and freeing non-furloughed service centre staff to support customers.
- Authored a library to give compile-time errors for recurring currency-conversion issues, removing the runtime errors entirely.
- Boosted production resilience by managing six bare-metal Kubernetes clusters, created with an Ansible playbook implementing Prometheus, Grafana, and AlertManager with notifications to Slack/Teams, giving zero downtime for the hosted workloads in 6 years of peak trading periods.

**Acumentive Ltd, Remote**

Aug 2007 – Jan 2013

**Software Development Lead**

Joined as the sole technical consultant & developer, working directly with the Managing Director on everything from customer-facing technical discussions to pre- and post-sales support and hands-on development. Wrote Python utility scripts to simplify product build and testing within a third-party framework. Designed and built a common C# application framework to speed up delivery and allow flexible configuration across different hardware and backend systems, supporting Windows, web, and Compact Framework mobile deployments backed by SQL Server. As the work grew, built and led the technical team of four consultants.

## **Key Contributions:**

- Acted as a key technical lead, keeping up-to-date knowledge of core technologies and maintaining steady working relationships with suppliers in RFID, Ultrasonic ID, and Real-Time Location Systems, allowing several industry-leading projects through strong partnerships.
- Supported the organisation's pioneering remote working model by putting practical systems in place for bug tracking, project management, wiki collaboration, change control, data back-ups, and DVCS version control, increasing transparency and manageability despite the distributed nature of the company.
- Improved testing and demonstration work by introducing Virtual Machine tools such as Virtual PC and VMWare allowing the MD & sales lead to demo to clients with repeatability and confidence.

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## **ADDITIONAL EXPERIENCE**

**.NET E-Commerce Developer** | Commercial Services, Kent County Council, UK, Aug 2005 – Aug 2007

**Lead Developer & Website Testing Consultant** | SciVisum Ltd, Sittingbourne, Kent, UK, Jan 2004 – Jul 2005

**IT Systems Engineer (Advanced CCTV Systems)** | Astraguard Ltd, Sevenoaks, Kent, UK, Apr 2003 – Dec 2003

**Software Development Engineer** | Viewgate Networks, Sevenoaks, Kent, UK, Dec 1999 – Aug 2002

**Simulator Maintenance & Development Engineer** | Magnox Electric, Oldbury Training Centre, Glos, UK, May 1996 – Dec 1999

**Control & Instrumentation Engineer** | Nuclear Electric plc, Berkeley Technology Centre, Glos, UK, Jun 1989 – May 1996

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## **EDUCATION & PROFESSIONAL ACCREDITATIONS**

**Chartered Engineer (CEng)** | Engineering Council, UK, since 2005

**Institution Member (MIET)** | Institute of Engineering and Technology (formerly IEE) , since 1993

**Master of Electrical & Electronic Engineering (MEng)** | Imperial College, London, UK, since 1992

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## **TECHNICAL CERTIFICATIONS**

**Linux Foundation CKA** | Kubernetes Admin, 2021

**IKM C# v4.0** | Developer, Score 99/100, 2012

**GS1 EPCglobal** | Barcode and RFID Certification, 2011

**MCAD C#** | Developer, 2003

**Cisco CCNA** | Network Admin, 2002

**Microsoft MCSE NT4** | System Admin, 1999

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## **OPEN-SOURCE CONTRIBUTIONS & COMMUNITY INVOLVEMENT**

**CNCF KubeVela Project** | Contributor | GitHub & Slack community

**A Hello World for AgenticAI Coding** | Creator | YouTube - [https://youtu.be/t88im\\_V3zQg](https://youtu.be/t88im_V3zQg)

**K9S (Kubernetes CLI UI)** | Contributor | Github & Slack community

**Ansible-Role-Pi-K8S (RPi4 Kubernetes cluster installer)** | Author | GitHub

**Kolossi.EasyLife null-tolerant LINQ library** | Author | NuGet & GitHub

**Octopus Deploy Task Template library PRs** | Contributor | GitHub

**Python 2.x core finalizer bug repro contributor** | Contributor | Python.org community

**Kube-Prometheus documentation** | Contributor | GitHub

**Engineering explainer docs and internal talks** (Async/Await deadlocks, SQL transactions, CGroup throttling, etc.) | Author/Presenter

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## **ADDITIONAL INFORMATION**

**Private Pilot Licence** | JAA-PPL(A)/SEP, 180 hours in the logbook

**Advanced Driving Qualifications** | IAM

**Previously voluntary roles** | Parent Governor, Parish Councillor

**Pickleball player** | DUPR rating 3.0-3.5