



MICROSERVICES • CLOUD-NATIVE • DEVOPS

# I design and deliver resilient microservice platforms and the automation to run them.

CTO and software engineering leader. 38+ years in microservices, architecture, and DevOps—building teams (15–25+) and platforms with CI/CD, GitOps, and SRE rigor.

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## Executive Summary

**CTO & Engineering Leader** with **38+ years** building and scaling software organizations across finance, security, and cloud-native platforms. I lead **medium to large product and platform teams (15–25+)** through the full lifecycle—from architecture and delivery to SRE-grade operations—creating secure, observable, and developer-friendly systems.

- **Team Leadership:** Built high-performance, cross-functional squads (dev, QA, SRE, security) with paved-road tooling, golden-path templates, and KPI/SLO-driven execution.
- **Platform Architecture:** Drove migrations from monoliths to *microservices* with GitOps, progressive delivery, and a secure software supply chain.

- **Business Outcomes:** Delivered regulated banking/payments platforms, accelerated time-to-market, and reduced MTTR via incident runbooks and actionable observability.
- **Operating Model:** Mentored EMs/tech leads, instituted clear ownership (Platform vs Product), and codified DoD, SBOM, and policy-as-code across environments.

Currently serving as **Chief Technology Officer (CTO) at Surion** , guiding product strategy, platform reliability, and R&D velocity.

## Skills & Core Strengths

### Generic Approach

Microservice Orchestration Architecture

Domain-Driven Design (DDD)

Kubernetes (K8s) & variants

Dev  $\approx$  Deploy

Cloud, BareMetal, Hybrid, DIY

CI/CD (GitLab, GitHub, ArgoCd, Versioning)

Infrastructure as code (Iac)

Linux Automation, Frameworks, Networking

Observability (Prometheus,Grafana,etc)

Security & Zero-Trust basics

Coaching & Team Enablement

Code & Infrastructure Debt Management

### Specific Architecture Principles

- API first Ethos
- Composability over complexity; explicit contracts (OpenAPI, gRPC).
- 12-Factor Methodologies.
- Immutable infrastructure.
- Paved-road.

- Fail-fast on CI; progress with feature flags.
- Observability by design: SLOs, RED/USE, actionable alerts.
- Security as code: policies, SBOMs, least privilege.

### Specific Toolchain Highlights & examples

- Kubernetes (MicroK8s/K3s), Helm/Kustomize, NGINX Ingress, cert-manager.
- Argo CD, GitLab CI, Tekton; Docker/Podman; BuildKit & SBOMs.
- Terraform (libvirt, cloud), Ansible, Packer.
- PostgreSQL/MySQL, MinIO/S3, Redis, Kafka/NATS.
- Hashi Vault, OpenID Connect, OAuth2 proxies.
- Bare-metal & DIY cluster Virtualization.

## Experience Snapshot

### ○ CTO / VP(engineering) at Surion Current

Complete re-engineering of corporate legacy platforms

- **Generic:** Took control of the whole technical infrastructure and solutions space for the CEO
- **Architecture:** Converted Monolith solution to Hybrid MsO solution.
- **Development :** Took the lead role, instantiated the 12Factor principles in team - successfully handed over to lead developer once architecture was deemed sustainable, extensible and extendable.
- Ensured golden-path templates: repo scaffolds, pipelines, and dashboards.

### ○ Principal Engineer / Architect Recent years

Microservice platforms on Kubernetes with GitOps, multi-env CI/CD, and SRE practices.

- VP role as head of engineering. Hired, built, lead and handed over large (18-26) software engineering team.
- The high rate-of-change in this corporate necessitated the creation of active **code-debt** and **skills-deficit** managerial principles.

- Designed service mesh-ready architecture; standardized telemetry.
- Designed & Implemented golden-path templates: repo scaffolds, pipelines, and dashboards.

### ○ **DevOps Lead Prior**

Scaled delivery with IaC, automated cluster provisioning and policy.

- Provisioned multi-node clusters via Terraform + Ansible; codified RBAC.
- Drove MTTR down with incident runbooks and chaos testing.

### ○ **Senior Software Engineer Earlier**

Delivered high-reliability systems across distributed and embedded domains.

- Led refactors from monolith to microservices with clear boundaries.
- Mentored teams on testing strategy, code review, and architecture.

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## **Selected Projects**

### **GitOps Platform Accelerator**

Argo CD • Kustomize • Policy-as-Code

- Multi-env repo layout with app-of-apps pattern.
- Bootstrap scripts for cluster add-ons (ingress, certs, dashboards).
- Compliance guardrails with signed images and drift detection.

### **Microservice Migration**

DDD • Event-driven • Observability

- Refactored core monolith into bounded contexts.
- Established contracts (OpenAPI/gRPC) + consumer tests.
- End-to-end tracing and service-level SLOs.

## Edge-to-Cloud CI/CD

K3s/MicroK8s • Secure supply chain

- Offline-capable runners, SBOMs, and provenance attestations.
- Progressive delivery with canaries and feature flags.
- Declarative secrets and zero-downtime upgrades.

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## Teaching, Speaking & Writing

### Mentorship & Curriculum

DevOps, Kubernetes, GitOps

- Designed hands-on curricula for microservice orchestration.
- Hands-on mentoring of real-world SDLC and GOP (Goodness of Plan).
- Led workshops on Terraform, MicroK8s, and Argo CD.

### Publications & Talks

Architecture • SRE • Automation

- Guides on platform engineering and paved-roads.
- Playbooks for incident response and postmortems.

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## Let's Build, Re-Engineer & Modernize your solution

Open to principal leadership & architectural roles, advisory work, and short-term turnarounds.

I have a strong preference for teams serious about automation, quality, and observability.

**Contact me**

I will respond here ..

If viewing the **pdf** - see My website (<https://waynephilip.com>)

Also for the **pdf** -- see linkedin @ (<https://www.linkedin.com/in/wayne-h-philip/>)

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- I have multiple references & proprietary demonstrations.
  - Advanced automation demonstrations would require SSH tunneling access.
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