

A principal-led engineering firm. Eighteen years designing cloud-native, high-throughput distributed systems on AWS — previously at Amazon Alexa and Avaya, post-graduate programme in AI & Machine Learning at Caltech CTME. Engagements run from a single architecture review to a fractional CTO retainer. You work with the principal throughout.

PRACTICES

Systems architecture Event-driven and distributed platforms designed to hold their guarantees under real load — and legacy systems taken apart without a big-bang cutover.	Fractional CTO Executive-level technical ownership without a full-time hire — strategy, roadmap, and the case to the board, plus the engineering org that has to deliver it.	Cloud, platform & AI AWS and Kubernetes done properly — infrastructure as reviewable code, deployment that makes rollback cheap, and AI automation applied only where it pays for itself.	Product engineering Shipping product on other people's platforms — Meta, Shopify and Android — with the same architectural rigour applied to the systems behind them.
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SELECTED WORK — CLIENTS DESCRIBED RATHER THAN NAMED

40%	Exactly-once settlement at financial scale	A financial settlements platform · An event-driven microservices platform for high-value settlement, where a duplicated or dropped message is a financial loss rather than a retry.
300,000+	A transport management system built from zero	A major logistics provider · End-to-end technical strategy and cloud architecture for a greenfield TMS covering smart route planning, live tracking telemetry and freight automation.
12s → 2s	Six-fold latency reduction by decomposition	A B2B pricing platform · A legacy monolithic pricing engine taken apart into twelve resilient services, cutting median latency six-fold and maintenance cost by well over half.
25%	Moving a device fleet's control plane to the cloud	A global consumer voice-device platform · Migration of a smart-home dashboard from edge devices to a centralised cloud architecture, shortening firmware release cycles and hardening OTA updates globally.
5,000/s	Five thousand authorisation decisions a second	A US federal communications programme · A highly concurrent policy server with strict reliability guarantees, plus the telemetry that cut global operational support workload by 60%.
30%	A development centre from nothing to thirty percent	An IT services firm · Standing up a new development centre end to end — hiring, engineering culture, delivery practice — and mentoring the team that produced the revenue.

CORPORATE TRAINING

- Distributed Systems & Event-Driven Architecture
- Domain-Driven Design in Practice
- Cloud-Native on AWS & Kubernetes
- TDD, BDD & Test Automation That Survives
- Performance Engineering & Latency Reduction
- AI & Automation for Engineering Teams
- Architecture for Senior Individual Contributors

ENGAGEMENT SHAPES

- **Architecture review** — 1–2 weeks, written assessment with risks ranked and priced
- **Design engagement** — 4–10 weeks, target architecture, ADRs and migration sequence
- **Fractional CTO** — 1–2 days/week ongoing, with real technical decision authority
- **Technical due diligence** — 1–3 weeks, independent read for a board or investor
- **Product build** — 6–16 weeks, Meta / Shopify / Android, backend included
- **Training** — 2–3 days, on-site or remote, up to 16 people

CORE COMPETENCIES

