

OWEN WALCHER

Director/VP Infrastructure Engineering | Enterprise Systems Architect | Systems Modernization & Reliability
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PROFESSIONAL PROFILE

Senior Infrastructure & Systems Engineering Executive with 30+ years of experience designing, modernizing, and scaling high-availability, fault-tolerant platforms across defense, financial services, telecom, and global enterprise environments. Proven track record in A-level requirements engineering, formal system verification, and operational risk mitigation under CISO/regulatory mandates. Adept at transforming complex technical ecosystems, driving platform reliability (SLOs/SLAs), and leading global, cross-functional engineering teams through major infrastructure overhauls.

AREAS OF EXPERTISE

Infrastructure & Architecture: High-Availability & Fault-Tolerant Systems • Hybrid Cloud Infrastructure • Modernization & Migration • Distributed Systems Resilience

Engineering & Governance: A-Level Requirements Engineering • Verification & Validation (V&V) • System Reliability (SLOs/SLAs) • Failure-Mode & Risk Analysis

Enterprise Operations: CISO & Security Alignment • Incident Management • Audit Readiness & Compliance • Operational Process Automation

Advanced AI & Data Systems: Enterprise AI Integration • LLM & Model Verification Protocols • Retrieval-Augmented Generation (RAG) • Data Architecture & Lineage

PROFESSIONAL EXPERIENCE

Founder / Technical Director & Principal Architect *Ask a Friend Publishing* 1998-present

- **Direct cross-functional teams of software engineers, designers, and content creators** under full P&L accountability, leading product lifecycles, platform architecture, and modern agile development methodologies.
- **Architected and deployed an enterprise AI/LLM evaluation pipeline**, benchmarking generative model performance against human-expert standards across high-consequence domains (legal, insurance, healthcare, real estate, home remodeling, consumer fraud).
- **Engineered automated data collection workflows and verification protocols** to measure model performance, detect failure states, lower hallucination rates, and enforce claim-strength controls on consumer-facing guidance platforms.
- **Designed, launched, and scaled e-commerce web platforms and digital media products**, overseeing system reliability, cloud infrastructure, user experience, and continuous delivery pipelines across multiple growth cycles.

Senior Technical Consultant / Systems Architect *American Management Systems* 1990-1997

- **Architected the re-engineering of a legacy telecommunications platform** into a modern, distributed, networked architecture using object-oriented methods, directly driving **\$50M+ in modernizing client sales**.
- **Designed high-availability customer-care and billing engines** for Fortune 500 and international clients, engineered for continuous uptime, high throughput, and graceful degradation during failure states.
- **Selected to present technical modernization and software architecture methodologies** at OOPSLA '93 (ACM Conference on Object-Oriented Programming, Systems, Languages, and Applications).
- **Partnered with cross-functional leadership and enterprise stakeholders** to translate complex business rules into resilient, high-volume system architectures across telecommunications and corporate sectors.

Financial Systems Consulting / Principal Systems Architect & Consultant 1988-1989

- **Architected a zero-error billing and transaction-processing engine** supporting **\$60B+ AUM** where processing failure was an unacceptable risk.
- **Engineered fault-tolerant transaction logic and reconciliation controls** to ensure strict data integrity, audit readiness, and continuous availability across high-volume financial operations.
- **Applied rigorous system verification and validation (V&V) protocols** to guarantee transaction precision, risk mitigation, and zero-defect performance.

Systems Engineer *RCA Corporation* 1983-1988

- **Authored A-level functional specifications for the Aegis Weapons System**, operating under precision engineering disciplines for safety-critical naval defense platforms.
- Applied formal failure-mode analysis, defined error tolerances, and rigorous verification & validation (V&V) protocols to ensure zero-defect mission execution.
- Collaborated with cross-functional defense engineering teams to translate complex tactical requirements into resilient, fault-tolerant system designs.

EDUCATION

Executive MBA, Information Technology, Webster University 1988

Bachelor of Science, Computer Science, Colorado Mesa University 1983