

# Christopher Lombardi

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## Principal/Staff Software Engineer | Distributed Systems, Multi-Tenant Platforms, AI/LLM Systems

12+ years of experience architecting scalable, secure, cloud-native web-platforms and integrating AI/LLM capabilities into production systems. Drives enterprise modernization, standardizes cross-team architecture, and delivers measurable impact across distributed systems, platform engineering, and global team leadership.

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### Core Impact

- **55+ asset managers across 40+ jurisdictions supported** by architecting and implementing core features for a multi-tenant regulatory reporting web-platform (tenant isolation, distributed processing, resiliency, security, scalability), including day-one delivery for some of the largest global managers.
  - **Multi-million-dollar product growth enabled** by directing product and global engineering initiatives that exceeded revenue targets while maintaining strong contribution margins.
  - **Product capabilities expanded and costs reduced** by identifying high-value AI use cases and designing AI-driven features using LLMs/SLMs with optimized prompt engineering and model selection.
  - **Delivery quality and engineering velocity improved across multiple teams** by influencing cross-team product and architectural decisions and establishing standardized engineering practices.
  - **Operating costs reduced and data processing performance increased** by optimizing auto-scaling and workload balancing, leveraging batching, caching, and distributed processing to increase throughput and minimize idle infrastructure.
  - **Near-zero defect leakage and zero high-severity security vulnerabilities leaked** by architecting and driving adoption of a test data generation platform, integration testing framework, and custom CI integrations that proactively prevent known issues.
  - **99.9% SLA reliability maintained and client satisfaction improved** by directing production incident response and postmortems, and implementing proactive monitoring, triage, and resiliency strategies.
  - **Cross-team development efficiency increased across multiple teams** by defining and communicating long-term architectural direction aligned with business goals, guiding platform evolution and modernization.
  - **20% increase in development velocity across 4 teams** by driving adoption of AI-assisted workflows and standardized engineering practices using Claude Code.
  - **9 engineers onboarded and team capability strengthened** by defining hiring standards, mentoring engineers, and establishing consistent engineering practices across teams.
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### Technical Skills

**Methodologies:** AI/ML, RAG, Distributed Systems, CQRS, Event-driven patterns, Vertical Slice Architecture, Multi-Tenant Architecture, Agile, Scrum, Test-Driven Development, SaaS/SOA

**Cloud & DevOps:** IaC, Docker, Azure: AI Foundry, Functions, Logic Apps, Data Factory, DevOps, Service Fabric, Cloud Services, Kubernetes

**Data & Messaging:** Azure SQL, Mongo Atlas, gRPC, ETL/ELT pipelines, Redis, SignalR, QDrant

**Security:** Auth0, OAuth2 & secure API design, Azure Key Vault, Azure App Gateway, OWASP, Veracode

**Languages:** C#, SQL, Mongo Query Lang., KQL, TypeScript, JavaScript, PowerShell, Terraform, Bash

**Frameworks:** .NET Core, React, Orleans (actor model), Entity Framework, Dapper, xUnit, TestContainers

**Tools:** Visual Studio, VSCode, Claude Code, ReSharper, React Dev Tools, LM Studio, OLLama, Git

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### Experience

**Confluence Technologies Inc.** — Principal Software Engineer | 12/2015–Present | Pittsburgh, PA

**Problem Solutions LLC** — Software Engineer | 05/2013–11/2015 | Johnstown, PA

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### Education

**B.S. Computer Science** — University of Pittsburgh at Johnstown | 08/2011–12/2014 | Johnstown, PA