Christopher Lombardi

Principal Software Engineer

Architecture • Distributed Systems • Cloud Platforms • Technical Leadership

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Executive Summary

Principal Software Engineer with 12+ years of experience leading architecture, enterprise application design, and distributed cloud systems. Proven track record of defining technical direction, scaling systems, mentoring engineers, and driving cross-functional initiatives across engineering and product organizations.

Experienced in designing secure, scalable, and cost-efficient cloud-native solutions, leading enterprise modernization initiatives, and influencing organizational strategy and engineering practices.

Professional Experience

Principal Software Engineer | Dec. 2015 – Present (10+ years)

Confluence Technologies Inc. | Pittsburgh, PA 15212

Strategic Leadership & Architecture

- Lead architecture and technical direction for Confluence's flagship global regulatory reporting platform, a multi-tenant enterprise system serving 55+ clients across 40+ jurisdictions. Ensure scalable, reliable, and compliant design while driving the consolidation and modernization of multiple legacy products into a unified, industry-leading platform that supports ongoing client onboarding.
- Lead modernization efforts, including legacy-to-microservices migrations, data migration strategies, and responsible monolith decomposition, improving scalability, maintainability, and resilience.
- Influence product and architectural decisions across multiple teams and external stakeholders, resolving complex design disagreements and aligning engineering efforts with business objectives.
- Translate complex system challenges into structured work breakdowns and technical deliverables, producing architecture diagrams and documentation for executive and engineering visibility.
- Define and lead adoption strategy for AI-assisted development across four engineering teams, establishing best practices and frameworks for safe, efficient, and innovative coding workflows.

Engineering Excellence

- Establish and scale standardized development practices, CI/CD pipelines, and architecture guidelines across multiple teams, enabling autonomous feature delivery and consistent code quality.
- Lead resolution of complex distributed system bugs and performance issues while identifying architectural risks, cost trade-offs, and cloud utilization impacts.

Team Development & Organizational Impact

- Shape engineering talent strategy through hiring contributions, promotion evaluations, technical leveling frameworks, interview standards, and career ladder development for team members and self.
- Mentor engineers and technical leads through structured guidance, documentation, and knowledge-sharing initiatives.
- Enable cross-team alignment and autonomous feature delivery through architectural clarity and standards enforcement.

Reliability, Security & Infrastructure

- Direct production incident response and postmortem analyses, establishing processes for incident triage, backlog prioritization, and proactive monitoring to ensure system reliability, resilience, and client satisfaction across multiple teams.
- Implement comprehensive logging and observability practices to detect issues before clients are impacted, enable rapid diagnosis, and facilitate efficient resolution of production incidents.
- Design systems aligned with secure SDLC practices and deployment-stage protections.
- Contribute to infrastructure cost optimization and team structure planning.

Software Engineer | May 2013 - Nov. 2015 (2.5 years)

Problem Solutions LLC | Johnstown, PA 15904

- Contributed to development of cloud-based enterprise applications.
- Supported DevOps processes and deployment initiatives to meet business requirements.
- Mentored junior engineers through documentation, knowledge-sharing sessions, and one-on-one guidance.

Technical Skills

Architecture

Cloud-native & distributed architectures • Microservices & monolith decomposition • Domain-Driven Design • CQRS & Event Sourcing • Vertical Slice Architecture (VSA) • RESTful APIs • Resilience patterns

Source Control & Collaboration

Git • GitFlow • Trunk-based development • Azure DevOps (Repos) • TFS • Pull request workflows • Code review standards • Branching & release strategies

Agile & Delivery Practices

Agile methodologies • Scrum • Kanban • Iterative delivery • Backlog refinement • Sprint planning • Story decomposition • Technical estimation • CI-driven development • DevOps collaboration • Continuous improvement practices

Cloud & DevOps

Azure (Functions, Logic Apps) • Kubernetes & Docker • Infrastructure as Code (Terraform, Bicep/ARM) • CI/CD pipelines (Azure DevOps) • Octopus Deploy • Serverless & event-driven architectures • Grafana

Data & Messaging

Relational & NoSQL databases (Azure SQL, MongoDB) • Caching• Messaging & event streaming (Service Bus, gRPC) • Data modeling • ETL/ELT pipelines

Observability & Security

OAuth2 & secure API design • TLS/AES encryption • Azure Key Vault • Network security (WAF, NSGs) • OWASP best practices • Static analysis

Languages

C# • SQL • TypeScript • JavaScript • PowerShell • Bash

Frameworks & Libraries

.NET Core • React • Orleans (actor model) • Data access (Entity Framework, Dapper) • Resilience & logging (Polly, Serilog) • Distributed workflows (Durable Functions, Azure Data Factory, Azure Logic Apps) • Automated testing & integration testing frameworks (xUnit, NUnit, TestContainers)

Education

Bachelor of Science in Computer Science — May 2014

University of Pittsburgh at Johnstown | Johnstown, PA 15904