Chris "Woody" Woodruff

Senior Solution Architect | Enterprise Architecture & Cloud Platform Engineering

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PROFESSIONAL SUMMARY

Pragmatic Solution Architect and Software Engineer with 15+ years of end-to-end enterprise architecture and solution design experience — from object-oriented foundations to large-scale distributed cloud systems. Proven track record of modernizing legacy architectures, reducing operational costs by 40%+, and leading cross-functional teams to deliver reliable, high-performance cloud platforms. Deep commitment to engineering reliability and business continuity, with measurable outcomes including 99.9%+ uptime and sub-50ms latency at scale.

Microsoft MVP and .NET Foundation Board Member. Active practitioner of agentic AI for coding and design workflows, with extensive hands-on experience with Microsoft Copilot AI, Claude Code, and Multi-Agent Systems. A dedicated mentor who has guided 15+ engineers in distributed systems patterns, architecture principles, and software engineering best practices.

CORE COMPETENCIES

Solution Design & Architecture: Enterprise Architecture, Solution Design, Object-Oriented Design, Microservices, Event-Driven Architecture, Modular Monolith, API Design, Distributed Systems, Domain-Driven Design

Reliability & Business Continuity: High Availability Design, Fault Tolerance, Circuit Breaker Patterns, Disaster Recovery, SLA/SLO Ownership, Incident Management

Cloud Platforms: Microsoft Azure, AWS, Multi-cloud Strategy

Software Engineering: C#/.NET Core/5+, JavaScript/TypeScript, Python, RESTful APIs, GraphQL, CQRS, Event Sourcing

Data & Integration: SQL Server, PostgreSQL, Apache Kafka, Entity Framework Core, CosmosDB, Redis

DevOps: CI/CD, Infrastructure as Code, Docker, Kubernetes, Azure DevOps, GitHub Actions

Leadership & Mentoring: Technical Mentoring, Engineering Team Leadership, Architecture Reviews, Stakeholder Alignment, Conference Speaking

AI & Automation: Agentic AI for Coding & Design, Microsoft Copilot AI, Multi-Agent Systems, Claude Code, Cursor, Windsurf, GitHub Copilot

PROFESSIONAL EXPERIENCE

Independent Consultant Architect | TEKsystems   *December 2025 – Present*

Working in the government healthcare space at one of the nation's largest healthcare technology companies.

- Delivering pragmatic solution design and enterprise architecture guidance to development teams operating at national scale, balancing technical rigor with delivery realities.
- Establishing architecture standards and reliability patterns — including redundancy, failover, and business continuity planning — to meet healthcare industry compliance and uptime requirements.
- Mentoring development teams on object-oriented design principles, clean architecture, and scalable software engineering practices.
- Leveraging agentic AI tools (Claude Code, Cursor, Windsurf) to accelerate architecture design, code generation, and technical documentation workflows.
- Applying Microsoft Copilot AI expertise (as a Microsoft MVP) to evaluate and guide enterprise-wide adoption of AI-assisted development tooling.
- Researching and prototyping Multi-Agent System architectures to coordinate specialized AI agents for complex engineering and design tasks, targeting measurable gains in team productivity.

Senior Solution Architect | Real Time Technologies Inc.   *December 2023 – November 2025*

Architected and deployed enterprise-scale Azure cloud platform serving 50+ REST API endpoints in a Modular Monolithic Architecture

- Applied pragmatic enterprise architecture principles to select a Modular Monolith over premature microservices decomposition, balancing team capacity and long-term maintainability.
- Designed a distributed, highly available system handling 500K+ daily transactions with 99.9% uptime through deliberate reliability engineering — including circuit breakers, retry policies, and failover strategies that ensured business continuity under load.
- Reduced infrastructure costs by 35% through serverless adoption and resource optimization without compromising reliability SLAs.
- Led migration of legacy monolithic applications to a modular architecture, improving deployment frequency by 300% and enabling independent team ownership.

Delivered a cloud-based inventory management system processing $10M+ in daily transactions

- Applied object-oriented design and clean architecture principles to build a Vue.js frontend and .NET Core API backend supporting real-time inventory tracking for 500+ SKUs.
- Implemented automated reordering algorithms reducing stockouts by 60% and excess inventory by 25%.
- Integrated with 5 external vendor APIs, ensuring system resilience through graceful degradation and retry logic to protect business continuity.

Team Leader, Engineering | Rocket Homes | Detroit, MI *July 2021 – December 2023*

Led 6-person engineering team to replace legacy point-to-point architecture with an event-driven platform

- Drove pragmatic solution design by replacing tightly coupled architecture with an Apache Kafka-based messaging system, processing 100K+ events daily with <50ms latency.
- Reduced system coupling by 80%, enabling independent service deployments and significantly improving reliability by eliminating cascading failure modes.
- Accelerated feature delivery by 200% through improved system modularity and engineering team autonomy.
- Improved system availability from 95% to 99.8% through circuit breaker patterns, retry logic, and health monitoring — directly strengthening business continuity posture.

AWS Platform Services: AWS SDK for .NET | EC2 | Lambda | Elastic Beanstalk | S3 | RDS | DynamoDB | API Gateway | SQS | SNS | IAM | Amazon MSK

Established distributed systems best practices and engineering culture

- Mentored 15+ engineers on microservices patterns, event sourcing, CQRS, and object-oriented design — conducting structured code reviews, architecture walkthroughs, and 1:1 coaching sessions.
- Created standardized event schemas adopted by 8 development teams, reducing integration friction and improving cross-team reliability.
- Led architecture review board processes that enforced reliability, scalability, and business continuity standards across all new system designs.

Team Leader, Developer Relations | Rocket Mortgage | Detroit, MI *August 2019 – July 2021*

Built Developer Relations function from the ground up, managing a team of 5

- Launched internal developer portal and tooling, reducing new engineer onboarding time from 6 weeks to 3.5 weeks through clear architecture documentation and software engineering guides.
- Established partnerships with 10+ open-source projects, contributing to 25+ repositories.

Drove engineering productivity initiatives impacting 200+ developers

- Produced 20+ technical virtual workshops with leading external community leaders, attracting 1,000+ attendees.
- Produced 50+ technical blog posts and video content, generating 500K+ views.
- Implemented developer experience metrics tracking, identifying and resolving the top 5 friction points in the engineering workflow.

Developer Advocate | JetBrains | Prague, Czech Republic *August 2017 – August 2019*

Evangelized .NET development tools across the North American developer community

- Delivered 50+ conference presentations to audiences of 5,000+ developers annually, covering software engineering, object-oriented design, and pragmatic .NET development practices.
- Created demonstration content viewed 1M+ times across blog posts, videos, and screencasts.
- Collected and prioritized user feedback from 500+ developers, influencing product roadmap for ReSharper and Rider.

Established JetBrains presence at major industry conferences and meetups

- Managed booth and speaking operations at 30+ conferences, including Microsoft Build, NDC, and CodeMash.
- Built relationships with 50+ user group organizers across North America.
- Increased .NET tool adoption by 25% in target developer segments through direct engagement and technical education.

Principal Architect | Eidex | Grand Rapids, MI *November 2016 – March 2017*

Architected AWS-based analytics platform for the K-12 education market

- Led a 10-developer team in solution design and delivery for a React/ASP.NET Core application serving 1,500+ school districts, applying object-oriented design and layered architecture principles throughout.
- Designed a data pipeline processing 10GB+ daily from a Snowflake warehouse with sub-second query response.
- Integrated Jenkins CI/CD pipeline, reducing deployment time from 4 hours to 15 minutes.

Independent Consultant | Self-Employed *2008 – Present*

Concurrent with select full-time roles; representative engagements:

Microsoft and Enterprise Clients – Software Architecture Consulting

- Delivered custom enterprise solutions for Microsoft, MLB Advanced Media, and 10+ Fortune 500 companies requiring pragmatic solution design and scalable enterprise architecture.
- Built high-performance web applications handling 1M+ concurrent users during peak traffic with 99.99% availability, backed by business continuity strategies including load shedding, failover, and geo-redundancy.
- Designed RESTful APIs and microservices processing 50M+ requests daily with enterprise-grade security, reliability, and performance.
- Applied object-oriented design, SOLID principles, and software architecture best practices for mission-critical business applications.

Grand Circus Training Partnership – Technical Curriculum Development

- Designed and delivered an 8-week intensive software engineering bootcamp training 50+ individuals in full-stack development, object-oriented design, and agile practices.
- Achieved 80% job placement rate within 90 days of program completion; curriculum adopted by 3 additional bootcamps across Michigan.

National Heritage Academies – Enterprise Software Development

- Part of a 13-member team building a school management system serving 93 charter schools across 9 states, supporting 50,000+ daily active users at 99.9%+ availability.
- Designed SQL Server database architecture and implemented DevOps practices with full business continuity planning.

Deep Fried Bytes Podcast – Technology Thought Leadership (2008–2014)

- Created and hosted an award-winning software development podcast producing 200+ episodes, averaging 100,000+ downloads across a global audience in 40+ countries.
- Recognized as a top 10 software development podcast by multiple industry publications.

EDUCATION

Bachelor of Science, Computer Science
Michigan State University, East Lansing, Michigan

CERTIFICATIONS & RECOGNITION

- Microsoft MVP (Most Valuable Professional) – Web Development & .NET/C# | 2008–2014, 2025–Present
- .NET Foundation Board Member and Director | 2024–Present
- JetBrains Community Contributor | 2020–Present
- PASS (Professional Association for SQL Server) Board Member and Director | 2017–2019
- AWS Community Builder | 2019–2021

CONFERENCE SPEAKING EXPERIENCE

- **Major Technology Conferences:** Microsoft TechEd, QCon San Francisco, Visual Studio Live (Orlando, Redmond, Austin, Chicago), NDC (Oslo, London), CodeMash, DevSum Stockholm
- **International Engagements:** Tunisia Dev Days, Update Conference Prague, Caribbean Dev Conference, ConFoo Montreal, Copenhagen Developer Fest
- **Regional & Community:** KCDC Kansas City, Prairie Dev Con Winnipeg, DevUp St. Louis

TECHNICAL EXPERTISE

Languages	C#, JavaScript, TypeScript, Python, SQL, T-SQL, PowerShell, Bash
Frameworks	.NET Framework, .NET Core, .NET 5+, ASP.NET Core, Entity Framework Core, Dapper, React, Angular, Vue.js
Cloud	Microsoft Azure, Amazon Web Services (AWS), Google Cloud Platform (GCP)
Databases	SQL Server, PostgreSQL, MySQL, MongoDB, CosmosDB, Redis, Oracle
Integration	Apache Kafka, RabbitMQ, Azure Service Bus, SignalR, gRPC, REST, GraphQL, SOAP
DevOps	Docker, Kubernetes, Jenkins, Azure DevOps, GitHub Actions, Terraform, Ansible
AI & Productivity	Microsoft Copilot AI, GitHub Copilot, Claude Code, Cursor, Windsurf, Multi-Agent Systems
Architecture	Microservices, Event-Driven, CQRS, Event Sourcing, Modular Monolith, DDD, Clean Architecture