

CHRIS PAULY

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PROFESSIONAL SUMMARY

Senior Systems Architect and Software Engineer with over 20 years of experience building high-throughput data infrastructure, distributed message topologies, rule execution engines, and containerized deployment workflows. Demonstrated high-agency technical leadership spanning complex stateful systems, automated CI/CD pipelines, distributed caching layers, and high-concurrency microservices. Continuous learner and proud father of 8-year-old twins—who inspire daily curiosity and creative problem-solving—bringing deep experience in turning complex distributed requirements into robust, scalable software environments.

CORE TECHNICAL COMPETENCIES

Primary Language Proficiency: C#, .NET / .NET Core, TypeScript, ECMAScript, T-SQL, Next.js, Node.js

Distributed Systems & Infrastructure: Docker, Microsoft Service Bus, Distributed Caching Middleware, Pub/Sub Event Pipelines, Solr Cloud, MongoDB Replication, DMZ Architectures

CI/CD & Developer Environments: Automated Gated Pipelines, Vercel Deployments, Sandboxed Environments, Multi-Project Solution Optimization

Rule Engines & Algorithms: RETE-based Rule Engines (Nools), Offline Deterministic Execution, Thread-Safe Multi-Threaded Services

Telemetry & Reliability: Azure Application Insights, Performance Profiling (Process Explorer, Fiddler), Distributed Tracing & Health Monitoring

PROFESSIONAL EXPERIENCE

2021 – Present **Senior Software Engineer / Systems Architect** | *Neuberger* nb.com

- **High-Throughput Data Ingestion:** Designed and implemented scheduled background processing engines to orchestrate time-sensitive financial data ingestion into public web surfaces and enterprise caches.
- **Resilient Caching & DMZ Layering:** Built secure caching middleware, backend-for-frontend APIs, and DMZ-isolated database endpoints to serve high-concurrency traffic with minimal latency while preserving strict network boundaries.
- **Containerized CI/CD Workflow:** Constructed end-to-end CI/CD pipelines supporting localized containerized development in Docker and orchestrated automated deployment to a headless Next.js frontend on Vercel backed by on-premises Sitecore 10.4 infrastructure.

- 2015 – 2021 **Senior .NET Sitecore Developer / Lead** | *Promega* *promega.com*
- **Shared Technical Leadership:** Stepped up into shared engineering leadership to triage technical backlogs, maintain delivery velocity, and guide architecture decisions across core web platforms.
 - **Distributed Search & Database Scaling:** Scaled infrastructure by installing and managing clustered Solr Cloud and replicated MongoDB environments; architected custom xDB contact facets and .NET Core RESTful synchronization services.
 - **Observability & Health Telemetry:** Configured Azure Application Insights to monitor global site performance, actively diagnosing latency anomalies, query bottlenecks, and API dependencies to drive proactive reliability fixes.
 - **Build Pipeline Acceleration:** Optimized multi-project enterprise solutions (40+ projects) by streamlining unit tests, restructuring build configurations, and implementing automated gated check-in pipelines.
- 2011 – 2015 **Senior Developer** | *CLEAResult* *clearesult.com*
- **Distributed Message Topologies:** Designed and implemented enterprise integration services using Microsoft Service Bus to coordinate asynchronous pub/sub messaging between Dynamics CRM and client endpoints.
 - **Deterministic Rule Engines & Offline Execution:** Implemented offline business logic and deterministic order-processing workflows using the RETE-based rule engine Nools in cross-platform environments.
 - **Tooling & Release Automation:** Developed the "EasyButton" WPF deployment utility to automate multi-step migrations of custom entities from development to production environments.
 - **Cross-Platform State Synchronization:** Debugged and maintained mobile/desktop hybrid applications executing unified business logic and local caching across Win32, iOS, and Android runtimes.
- 2007 – 2011 **Senior Software Developer** | *WTS Paradigm* *wtsparadigm.com*
- **High-Concurrency Systems:** Developed multi-threaded server processing engines utilizing explicit AppDomain isolation, thread-safe memory management, and high-performance stored procedure pipelines.
 - **Large-Scale Data Refactoring:** Directed a technical initiative converting over 2,000 LINQ and dynamic SQL queries into optimized stored procedures, eliminating severe database locking and finishing ahead of a 3-month deadline.
 - **Standardized Engineering Blueprints:** Formulated repeatable technical design templates and provided mentoring and peer reviews across a 20+ developer organization.

- 2006 – **Software Developer** | *UW Dept. of Ophthalmology and Visual Sciences FPRC*
2007
- Engineered FDA-compliant (GxP, Part 11) medical applications and role-based database security configurations.
- 1996 – **Systems Analyst** | *UW Health* *uwhealth.org*
2006
- Architected enterprise-wide master LDAP authentication systems across hospital and medical foundation networks.

EDUCATION & ACHIEVEMENTS

- B.A., Computer Science – *University of Wisconsin Madison* (2002)
- Microsoft TEALS volunteer teacher, Oregon High School (2021)
- Sitecore XP Certified .NET Developer (2017)
- thatConference presenter: Mastering Voice UX (2016)
- FCC Licensed Amateur Radio Operator (General Class - KD9DVE)
- Eagle Scout (1994)
- Rotary Foreign Exchange – Uddevalla, Sweden (1992)