

Todd Hurley

Principal Software Engineer · Architect · Technical Consultant

Domain-Driven Design · AI-Augmented Engineering · AI-Enabled Architecture · Enterprise Modernization

Detroit Metropolitan Area · thurley.dev · thurley74@gmail.com · [LinkedIn](#)

PROFESSIONAL SUMMARY

Principal software engineer, architect, and technical consultant with 30+ years of experience designing, building, and modernizing complex software systems across backend, frontend, cloud, architecture, and delivery.

Hands-on technical leader specializing in Domain-Driven Design, Clean Architecture, enterprise modernization, and the application of AI to software architecture and engineering practice. Experienced in taking complex systems from technical discovery and domain modeling through architecture, implementation, deployment, and production evolution. Equally comfortable setting technical direction, leading engineering teams, or working hands-on alongside them.

Current focus includes designing AI-enabled systems using patterns such as retrieval-augmented generation (RAG) and advancing AI-augmented engineering through specification-driven development and agentic workflows. Brings a player/coach approach to technical leadership, mentoring engineers, building team capability, and aligning technical decisions with business objectives while remaining deeply involved in architecture and implementation.

CORE CAPABILITIES

Architecture & Domain Design	Domain-Driven Design · Event Storming · Bounded Contexts · Clean Architecture · Distributed Systems · Event-Driven Architecture · CQRS · Domain Events · System Decomposition · Integration Patterns · Enterprise Modernization · Strangler Fig · Architecture Roadmaps
AI Engineering	AI-Enabled Architecture: Retrieval-Augmented Generation (RAG) · LLM & SLM Application Architecture · Model Selection & Integration · Enterprise Data Grounding AI-Augmented Engineering: Specification-Driven Development · Agentic Development Workflows · AI-Augmented Testing & Verification · AI-Assisted Technical Discovery AI Quality & Evaluation: Prompt Engineering · Prompt Design Patterns · LLM Evaluation (Evals) · Evaluation-Driven Development
Technical Leadership	Technical Direction: Technical Strategy · Technical Discovery · Modernization Roadmaps · Engineering Standards & Practices Teams & Engineering Culture: Team Leadership · Mentoring & Coaching · Team Capability Building · Engineering Practice Development · Pairing & Ensemble Programming · Interviewing & Hiring Delivery & Stakeholders: Client Consulting · Delivery Leadership · Cross-Functional Alignment · Stakeholder Management · Technical Communication · Risk & Dependency Management
Engineering & Delivery	Primary Development Stack: C# · .NET · Angular · TypeScript · SQL Server Languages & Frameworks: Python · Java · JavaScript · Node.js Cloud & Infrastructure: Azure · AWS · Infrastructure as Code (IaC) · Terraform · Bicep · Docker · Kubernetes · Nginx · Azure DevOps Engineering Practices: CI/CD · TDD · BDD · Automated Testing · Extreme Programming · Incremental Delivery

PROFESSIONAL EXPERIENCE

LiminalArc

Lead Studios Consultant | September 2023 - Present | Remote

Lead engineering consultant and hands-on architect across multiple client engagements. Help clients understand complex systems, define modernization strategies, establish architecture and domain models, and work alongside engineering teams through implementation and delivery. Lead delivery teams, mentor engineers, and help develop engineering practices across the studio.

- Co-led an enterprise Platform Engineering team, setting technical direction and incrementally modernizing legacy application, infrastructure, and deployment architectures using AWS, Terraform, and Azure DevOps.
- Designed and built reusable Golden AMLs and Golden Pipeline Templates to standardize infrastructure, deployment, and delivery practices across engineering teams.
- Architected and built a distributed sales and lead-management platform covering appointment-center workflows, dialer integration, lead APIs, event processing, and supporting services using C#, .NET, Angular, SQL Server, and Azure.
- Applied Domain-Driven Design and Clean Architecture to define domain boundaries, aggregates, domain events, persistence boundaries, and independently evolvable services, with event-driven integrations using transactional outbox messaging and asynchronous processing.
- Led technical discovery and modernization initiatives, using Event Storming and domain modeling to identify bounded contexts, integration boundaries, architectural risks, target states, and incremental modernization paths.
- Helped lead modernization of a legacy ColdFusion application into a service-based .NET architecture, using the Strangler Fig pattern to replace functionality incrementally while the existing production system remained operational.
- Designed and built AI-enabled applications using RAG, LLMs, SLMs, and enterprise data grounding, and developed specification-driven and agentic workflows from technical discovery through implementation, testing, and verification.
- Established and promoted engineering patterns and practices including Clean Architecture, strongly typed IDs, domain events, CQRS, reusable Seedwork libraries, automated testing, and incremental delivery.
- Led delivery pods, mentored engineers through the apprenticeship program, and contributed to interviewing, hiring, and engineering capability development.

Jack Henry

Senior Software Engineer | July 2022 - September 2023 | Shelby Township, MI

- Led development of the ImageCenter check-processing and teller-capture application from design through deployment using .NET Framework, Angular, and SQL Server.
- Served as sole architect and developer of the ImageCenter Support Portal, a greenfield .NET Core, Angular, and SQL Server application used to administer hosted financial-institution environments.
- Worked across engineering, business, security, and regulatory concerns while developing software for banks and credit unions.

- Championed adoption of Extreme Programming and modern engineering practices within a traditionally structured development organization, with a focus on TDD, pair programming, continuous integration, incremental delivery, and rapid feedback.
- Mentored engineers in these practices through hands-on collaboration, pairing, and day-to-day technical leadership.

Hurley + Collective

Co-CEO / Partner | December 2017 - December 2022 | Shelby Township, MI

Co-founded and ran a software consulting company delivering custom software and modernization work for clients across multiple industries. Shared responsibility for the business while remaining hands-on with clients, architecture, software development, and delivery.

- Built the consultancy from the ground up, developing client relationships, shaping engagements, estimating and scoping work, and taking projects from initial conversations through delivery.
- Worked directly with clients to understand their business and existing systems, identify the problems that mattered, define technical approaches, and turn those decisions into working software.
- Worked hands-on across client projects using .NET, Angular, Python, Django, TypeScript, SQL Server, Oracle, and Azure, adapting to the technologies and constraints of each engagement.
- Designed and delivered a SaaS platform for a customer-satisfaction indexing company, covering data collection, analytical modeling, external APIs, reporting, and the supporting cloud architecture.
- Led modernization of a deprecated Oracle Forms system into a web application using Python, Django, TypeScript, and Oracle.
- Managed the day-to-day responsibilities of running a consulting business, balancing client needs, technical delivery, staffing, and business operations.

Pillar Technology

Software Craftsman / Consultant | November 2015 - 2017 | Ann Arbor, MI

Senior engineer and consultant across two client engagements, working within Pillar's software craftsmanship culture and helping client and internal engineers develop disciplined, collaborative engineering practices.

- Served as a senior engineer on a customer-satisfaction data platform, building a .NET, Angular, and SQL Server application that became the client's primary platform for collecting, processing, analyzing, and reporting customer survey data.
- Worked closely with client stakeholders to understand the business, shape technical solutions, prioritize work, and deliver software through short feedback cycles.
- Practiced and promoted Extreme Programming as a day-to-day engineering model, including TDD, pair programming, continuous integration, refactoring, simple design, and incremental delivery.
- Mentored client and internal engineers through pairing, hands-on coaching, code reviews, and collaborative problem solving.
- Participated actively in Pillar's learning culture through coding katas, knowledge sharing, and continuous improvement of engineering practices.

Hewlett-Packard

Senior Software Engineer | June 2014 - November 2015 | Pontiac, MI

- Served as technical team lead within the U.S. Public Sector Application Delivery Center, leading application development work for the USPS Quality Office.
- Remained hands-on with architecture and development while guiding technical decisions, engineering practices, and delivery.

Econ Global Services

Service Technology Lead | August 2012 - December 2013 | Birmingham, MI

Provided architecture and senior engineering leadership across several enterprise client engagements.

- **Elastic Outreach:** Architect Consultant and core developer for a multi-channel marketing platform using JSF, PHP/MySQL, and RESTful services.
- **GM OnStar:** Senior Developer on the Global Advisor application, developing enterprise software and promoting TDD using JUnit and Mockito.
- **GM Enterprise Technology:** Infrastructure Architect supporting the effort to make GM's dealer Order Work Bench available on mobile devices.

Hewlett-Packard

Information Services Developer 5 (Master) | September 2006 - July 2012

Senior engineer and technical lead building enterprise applications and shared technology solutions for major HP client accounts.

- Designed and developed PMO applications supporting accounts including USPS, American Express, American Airlines, Shell, Kraft, Symantec, Bristol-Myers Squibb, and Cigna.
- Designed and built DTTRT, a Java-based project-management and reporting platform that reduced the effort required to establish and operate project-management capabilities across client accounts.
- Built and modernized .NET applications for work-product review, defect analysis, change management, financial tracking, and invoicing.
- Created a cross-platform deployment process supporting UNIX, Linux, and Windows environments across multiple data centers.
- Served as lead programmer and ITIL process champion for the web-development team.

Earlier Experience

Service Delivery Executive | Econ Global Services | 2004-2006

Led client delivery and service-management responsibilities following several years in engineering and project-management roles.

Java Web Developer | Econ Global Services | 2004

Java Web Developer / Project Manager | EDS | 1999-2004

Network & Desktop Administrator | EDS | 1997-1999

SELECTED PROJECTS & OPEN SOURCE

DddSeedwork Open-source .NET/NuGet library providing reusable Domain-Driven Design building blocks for entities, value objects, aggregate roots, strongly typed IDs, domain events, and related patterns.

flow-toolkit Open-source Claude Code plugin for specification-driven development, providing executable specifications, specialized agents, workflow guardrails, verification, backlog management, and release tooling.

StormBoard AI-enabled Event Storming and domain-modeling platform for collaborative discovery, legacy-system analysis, modernization planning, and translating domain discoveries into DDD models and software architecture.

LitmusAI Prompt-engineering and LLM-evaluation harness for developing, testing, comparing, and evaluating prompts and AI behavior.

Cortex Golf Golf performance platform built on a microservices architecture with detailed round and shot tracking, AI-generated performance analysis, coaching, and on-course decision support.

WRITING & TECHNICAL LEADERSHIP

Active technical writer at thurley.dev, publishing practitioner-focused material on software architecture, engineering practices, and practical AI adoption.

Modern Extreme Programming Revisits XP as an integrated engineering system built around TDD, pairing, refactoring, simple design, rapid feedback, and continuous delivery.

Domain-Driven Design A practitioner-focused series covering Event Storming, bounded contexts, aggregates, domain events, CQRS, and applying DDD to real-world software architecture and modernization.

AI-Assisted Development Explores specification-driven development, agentic workflows, verification, team adoption, and how AI changes software engineering practice.

AI Fundamentals A practical introduction to LLMs and SLMs, embeddings, RAG, model selection, prompting, agents, tool use, and evaluating where AI provides business value.

You're Using Claude Code. You're Not Really Using Claude Code. Explores moving beyond basic AI coding assistance toward more deliberate, structured use of Claude Code in software engineering.

EDUCATION

University of Michigan-Dearborn

Bachelor of Science, Computer and Information Science

CERTIFICATIONS

- Certified ScrumMaster
- ITIL Manager Certification