

Aaron Dershem

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SUMMARY

Principal-level full-stack engineer who takes on the hard, cross-cutting problems nobody owns, digs in to understand how the system really works, and builds what lasts. 20+ years in software and systems engineering, including 12+ years in C#/.NET and ~7 years of TypeScript and Angular. Built a 6,000+ URL monitoring system that replaced a \$200K+/yr commercial tool, owned an ASP.NET Core / Angular access-request platform for 7 years as a primary source of PCI audit evidence, and led a two-year enterprise cloud governance effort across ~110 Azure subscriptions and ~60 AWS accounts.

SKILLS

Languages: C#, TypeScript, SQL, Python, PowerShell, Bash

Frontend: Angular, HTML/CSS

Backend: ASP.NET Core, REST, OpenAPI/Swagger, microservices

Data: SQL Server, Cosmos DB, Qlik, KQL

Cloud & Infra: Azure (Microsoft Graph API, Azure Policy, Resource Graph, Log Analytics), ServiceNow CMDB

Monitoring & Ops: Nagios, SCOM, CA/Broadcom DX UIM, Linux/Windows administration, certificate + URL monitoring

Security & Compliance: PCI DSS, Linux hardening, audit trails

AI / Agentic: Claude Code (plugin authoring, custom subagents, hooks), agent workflow design, prompt-driven hook authoring

Methodology: Agile / Scrum (10+ years across Product Owner, Scrum Master, and Developer roles), Azure DevOps, software architecture, technical leadership, mentoring

EXPERIENCE

Blackbaud, Inc. — Charleston, SC (Remote) · Oct 2007 – May 2026

Principal Software Engineer · Jun 2015 – May 2026

Internal tools team for the first 7 years (2015–2022), then internal security automation (2022–2024), and most recently cloud governance / FinOps (2024–2026).

- Owned an inherited engineering-wide ASP.NET Core / Angular access-request platform for ~7 years across all three teams; a primary source of audit evidence for PCI compliance. Led the executive-mandated 4-week retirement as single technical point of contact, completing cutover with zero downtime and no compliance gaps.
- Architected BBMon, an internal ASP.NET Core / Angular URL-monitoring platform that replaced a \$200K+/yr commercial tool and scaled to 6,000+ URLs checked every 5 minutes across 4 products. Plugin layer for vendor portability and geographically-distributed checkers; failures rolled up into customer-cluster outage groupings for the operations center. Ran ~5 years across all three teams before retirement to Azure-native monitoring.
- Built the eWAF tool for placing products behind the enterprise WAF, and an encrypted-backup solution for customer-requested database backups, while embedded across multiple teams during an enterprise security initiative. Mentored 6 junior and mid-level engineers on PowerShell, .NET microservices, and SPA development.
- Led a two-year enterprise cloud governance effort across ~110 Azure subscriptions and ~60 AWS accounts, driving a ~20-person cross-functional committee to establish tagging as the source of truth for security audits and FinOps. Built Qlik dashboards over Azure Policy data to monitor tag compliance, plus a gap analysis tool surfacing CI discovery and tagging inconsistencies across Azure, AWS, and the ServiceNow CMDB.

- Was the senior technical anchor across all three teams for 10+ years: architectural input, code review, mentoring from junior through senior. Worked in Product Owner, Scrum Master, and Developer roles during the Agile/Scrum rollout.

Software Engineer III · Apr 2011 – Jun 2015

- As part of Blackbaud's internal tools team, owned the enterprise monitoring stack and contributed to internal integrations the team built for product engineering.
- Architected and rolled out enterprise monitoring across 3,000+ Linux and Windows servers supporting 40+ product lines: led the Linux migration from Nagios to CA/Broadcom DX UIM and stood up SCOM as a new Windows monitoring deployment, both as part of broader monitoring and Microsoft licensing consolidation. Designed gateway topology, agent strategy, and alert-routing hierarchies for application support teams.

Systems Engineer – Linux · Oct 2007 – Apr 2011

- Joined via Blackbaud's acquisition of eTapestry. Core member of a 3-person IT team managing the entire eTapestry Linux / Solaris / JVM stack, alongside broader infrastructure operations including networking, firewalls, and full datacenter buildouts.
- Led the effort to achieve eTapestry's first-ever PCI DSS compliance for ~200 Linux servers, building the compliance foundation from the ground up by implementing controls for hardening, centralized logging, IAM, network segmentation, and file integrity monitoring; partnered with external auditors to define scope and successfully pass the inaugural audit.
- Centralized and streamlined Linux monitoring for ~200 servers using Nagios; stood up centralized logging and implemented LDAP and Kerberos authentication. Replaced manual server buildouts with a streamlined virtualization and template-based workflow. Drove enterprise rollout of centralized DataDomain deduplication backups across multiple departments.

Radley Corporation — Southfield, MI · Feb 2004 – Sep 2007

System Administrator

- Sole IT / infrastructure for a 30–50 person multi-site SaaS company (EDI/SCM), reporting directly to the CEO. Researched and built customer-facing SaaS hosting infrastructure (network, storage, HA, backups, firewalls) for the shrink-wrap-to-SaaS transition; led three datacenter buildouts and managed all vendor contracts.

PERSONAL ENGINEERING PROJECTS (JAN 2026 – PRESENT)

Built a custom agent-driven SDLC for my own development work: a suite of Claude Code plugins and specialist agents, model routing across Opus/Sonnet/Haiku, and hook-enforced guardrails backed by persistent memory. Drives full-stack proof-of-concept projects off a shared infrastructure baseline, with GitHub Issues as the source of truth and worktree-isolated execution.

COMMUNITY

Co-organizer, Indy Study Hall (indy.sh) · cross-discipline drop-in meetup since 2016.

EDUCATION

Ball State University, Muncie, IN

B.S. Computer Technology · A.S. Business Administration

Blaizing Academy (formerly Eleven Fifty Academy), Indianapolis, IN

Microsoft .NET Bootcamp