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Sean W. Findley

Senior Software Engineer | Applied AI & Agentic Systems | .NET & Azure | AI Product Engineering

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PROFESSIONAL SUMMARY

Senior software engineer with 11+ years delivering secure, data-intensive applications. Current focus is OverLift, a browser-native agentic AI system with an authoritative ISO C17-to-Wasm runtime. Workers, SharedArrayBuffer, AudioWorklet, SIMD, and WebGPU-ready rendering keep execution local. T0-T7, CATS, and Tier-S provide adaptive acceleration, verified selection, quarantine, replay, rollback, and deoptimization. Semantic Bridge, hybrid search, RAG, and browser-local or Azure vector databases ground agents in evidence; deterministic code commits with citations and Decision Receipts.

TECHNICAL SKILLS

Application Engineering	C#, .NET, ASP.NET Core/MVC, REST APIs, LINQ, JavaScript, Node.js, Vue.js
Cloud, DevOps & Identity	Microsoft Azure, App Service, Azure DevOps/Pipelines, Azure Monitor, Application Insights, Resource Graph, CI/CD, OAuth 2.0, Microsoft Entra ID
Data, Retrieval & Performance	SQL Server, T-SQL, PostgreSQL/pgvector, Redis, embeddings, browser-local and Azure vector databases, hybrid search, RAG, semantic retrieval, citations, indexing, SSRS
Applied AI & Runtime	Python, agentic AI, Semantic Bridge, structured outputs, ISO C17-to-Wasm, Workers, SharedArrayBuffer, AudioWorklet, SIMD, WebGPU-ready rendering
Additional Technologies	Rust, Tauri, ONNX Runtime, PyTorch, PHP/Laravel, Java/Spring, WordPress, Kendo UI, Workday, OnBase, OBIEE, Hyperion

PROFESSIONAL EXPERIENCE

Independent Software Engineer

DEC 2025 - PRESENT

SeanFindley.com / Independent Product Lab

Reno, NV

- **OverLift:** Building a browser-native agentic AI system and deterministic accelerated execution around an authoritative ISO C17-to-Wasm runtime. T0-T7, CATS, and Tier-S provide optimized paths, verified selection, instant quarantine, replay, rollback, and deoptimization.
- **Semantic Bridge and retrieval:** Turning documents, state, events, relationships, and causal records into provenance-rich semantic objects. Browser-local or Azure vector databases support hybrid search and RAG; deterministic code validates and commits AI proposals with citations and Decision Receipts.
- **OverLift Emulators, Saros.ai, and Vellucent Studio:** Building deterministic browser emulation; local-first market intelligence with news, filings, and PDF RAG, econometrics, options, simulations, and backtests; and private AI document editing, OCR, redaction, semantic retrieval, and governed transformations.
- **Azure Glossary, Article Studio, Veil, and Veluris:** Developing semantic Azure reference and exam preparation, an agentic publishing pipeline, deterministic ephemeris and horoscope visualization, and freshness- and safety-aware event discovery with semantic matching.

Senior Developer

OCT 2018 - DEC 2025

Nevada Gaming Control Board

Carson City, NV

- Built and supported 7+ secure C#/.NET production systems spanning licensing, enforcement, human resources, and regulatory reporting for an agency of approximately 440 employees and thousands of applicants, licensees, and public users worldwide.
- Converted paper/PDF and pen-and-form workflows into secure web applications for gaming employment registration, withdrawn applications, enforcement reporting, and talent management, eliminating manual routing and duplicate data entry for thousands of users.
- Optimized SQL Server queries, stored procedures, indexes, and SSRS reports; in representative cases, cut high-use report runtimes from about 90 seconds to roughly 12 seconds - approximately 7.5x faster.
- Standardized builds and releases through Azure DevOps pipelines across multiple applications, replacing manual deployment steps with repeatable CI/CD and improving release consistency.
- Partnered with stakeholders across 4 business functions to translate regulatory rules into maintainable software, resolve production issues, and deliver enhancements throughout a 7-year tenure.

Senior Developer

OCT 2017 - OCT 2018

Western Nevada College

Carson City, NV

- Built a Redis-backed employee intranet with Node.js, Vue.js, and Vuetify for campus-wide staff, consolidating fragmented internal information into one maintainable platform.
- Reworked Institutional Research SQL using CTEs, set-based logic, and indexing; often achieved about 10x faster execution on aging hardware, moving many reports from multi-minute waits to seconds or tens of seconds.
- Supported and integrated 7+ enterprise platforms and connected processes, including Workday, OnBase, Tableau, PeopleSoft, WordPress, Joomla, and Laravel.
- Built custom WordPress administration tools that reduced repetitive content-management steps and made routine updates accessible to nontechnical staff.

Webmaster

MAR 2017 - AUG 2017

Asset Management Group

Moundhouse, NV

- Managed and modernized multiple WordPress and Drupal sites; migrated legacy Adobe Muse properties to WordPress, replacing desktop-bound publishing with browser-based administration.
- Improved site speed and SEO to GTmetrix A ratings and approximately 1.6-second average load times through caching, asset optimization, and theme/plugin cleanup.
- Built product prototypes across 4 web stacks - PHP/Laravel, Node.js, Vue.js, and Total.js - on AWS virtual machines during a 6-month engagement.

IT Professional II
AUG 2015 - MAR 2017

Legislative Council Bureau
Carson City, NV

- Developed and supported several flagship public-facing and internal .NET applications used by legislative staff and the public, with production support during high-demand legislative periods.
- **Lobbyist Registration & Reporting:** Built and enhanced the public-facing .NET/SQL Server system used by lobbyists and LCB staff to manage session registrations, represented clients and employers, principal areas of interest, amendments, and monthly/final expenditure disclosures; exposed searchable public reports by lobbyist, client, and expenditure.
- Designed and tuned the supporting financial-reporting workflows for itemized expenditures, monthly totals, and public disclosure using dozens of SQL Server stored procedures, views, and database objects; moved heavy reports to asynchronous processing to prevent browser timeouts during legislative sessions.
- Provided light server administration and release support across a multi-site web estate, resolving application, database, and deployment issues in production.

IT Professional Trainee
OCT 2014 - AUG 2015

Nevada Department of Employment, Training and Rehabilitation
Carson City, NV

- Supported statewide Java/Spring applications and Oracle reporting workflows across MVC, Hyperion, OBIEE, SQL/PLSQL, QTP, and HP Quality Center.
- Built automated regression scripts that replaced dozens of repetitive manual test steps per release and improved repeatability across enterprise application changes.
- Optimized complex multi-page, multi-table SQL/PLSQL reports; representative rewrites produced several-fold runtime improvements and more reliable operational reporting.

EARLIER EXPERIENCE

Personnel Technician III
MAR 2013 - OCT 2014

Nevada Department of Corrections
Carson City, NV

- Hired and processed 110 employees in 19 months - about 6 per month on average - across security, healthcare, behavioral health, and IT, helping the institution become the first to reach full staffing.
- Managed end-to-end recruiting, interviews, background checks, onboarding, benefits, and personnel transactions, and delivered orientation for new correctional officer cohorts.

EDUCATION

Master of Business Administration (MBA), Business / Finance — 2011
University of Nevada, Reno

Bachelor of General Studies — 2010
University of Nevada, Reno