

Noah A. Hertlein

IT Risk & Assurance | ITGC & SOX 404 | IT Application Controls | Audit Automation

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Professional Summary

IT audit and technology risk professional at EY testing ITGCs and automated application controls for a Fortune 1 retail enterprise, across multiple clients and on teams of up to 50+. Reviews Java, Python and SQL source code to test complex controls in SAP, cloud and data-integration environments, and builds AI audit automation used by 50+ team members. CISA candidate.

Professional Experience

Ernst & Young (EY)

Bentonville, AR

IT Risk & Assurance Staff, Technology Risk

July 2025 – Present

- Sole onshore staff on the application-controls team for a Fortune 1 retailer; tested 100+ of the most complex, custom-developed and financially material ITACs across inventory, order-management and financial-reporting systems.
- Test design and operating effectiveness by reviewing source code and configurations (Java, Python, SQL) in SAP and custom-built platforms; independently verify in-scope production code versions so conclusions reflect what is deployed.
- Designed an AI-driven audit-automation workflow (evidence intake, control classification, walkthrough prep) adopted by 50+ team members; automated management of a 250+ control matrix, improving consistency and turnaround.
- Validate IPE completeness and accuracy by tracing data end to end across cloud data platforms, message queues, workflow orchestration and relational databases, reconciling record counts and transactions to source.
- Evaluate interface and error-handling controls (message validation, schema and total-amount checks, monitoring and alerting) to confirm failed or rejected transactions are detected, retried and resolved.
- Prepared 50+ ITGC workpapers; author control narratives, IPE and benchmarking memos and PBC requests, and lead walkthroughs with developers and control owners to define key control points.
- Escalate evidence gaps and control deficiencies with client IT, internal audit and offshore teams; apply risk-based benchmarking to leverage prior-year testing and cut redundant procedures.

Technology Risk Intern

June 2024 – August 2024

- Supported ITGC and application-controls testing, walkthrough documentation, evidence collection, prior-year benchmarking and report tie-outs on a large enterprise engagement.
- Earned a full-time return offer and transitioned directly onto the engagement after graduation.

Leadership & Research

Arkansas AI Foundry | Co-Founder & VP of AI; now Strategic Advisor

Fayetteville, AR

- Co-founded a University of Arkansas AI organization, now a 501(c)(3), and grew it to 100+ members through speaker events and workshops; now an unpaid, independent AI strategy advisor.

Sam M. Walton College of Business | Finance Technology Research Assistant

Fayetteville, AR

- Applied Python and AI to financial modeling using the DRIVER framework under Professor Xinde Zhang; coached graduate students through coding challenges.

Education & Certifications

University of Arkansas, Sam M. Walton College of Business

Fayetteville, AR

B.S. in Business Administration, Financial Analytics; Minor in Business Information Systems

May 2025

Certified Information Systems Auditor (CISA), ISACA

In Progress

Technical Skills

Audit & Risk: ITGCs, SOX 404, ITACs, IT-Dependent Manual Controls, IPE Completeness & Accuracy, Walkthroughs, Benchmarking

Programming: Python, SQL, Java

Enterprise & Cloud: SAP & ERP, Cloud Data Platforms, Event Streaming & Message Queues, Workflow Orchestration, SQL & DB2

Tools: Advanced Microsoft Excel, AI Workflow Automation, Data Analysis & Reconciliation