

Hank Karpinen

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PROFESSIONAL SUMMARY

Full-stack Software Engineer specializing in modernizing legacy systems into scalable .NET and cloud-based architectures. Experience integrating AI-assisted development workflows and building custom automation tools to accelerate engineering productivity. Proven contributor to enterprise data modernization initiatives and agile team leadership. AWS Certified Solutions Architect.

CERTIFICATIONS

- AWS Certified Solutions Architect – Associate
- AWS Certified Cloud Practitioner
- Certified ScrumMaster

EXPERIENCE

Enterprise Developer II

University of Idaho

June 2025—Present, Moscow, ID

- Modernized two legacy .NET WebForms applications into .NET 10 Razor Pages and API-driven architectures, improving scalability, maintainability, and long-term supportability
- Designed and implemented a custom AI-driven tooling workflow to analyze existing codebases, extract domain-driven design components, and generate modern architecture patterns for system redevelopment
- Integrated AI-assisted development tools into daily workflows to accelerate code generation, reduce development time, and improve engineering productivity
- Maintained and enhanced integrations between internal and vendor systems using Groovy, ensuring reliable data exchange and system interoperability
- Collaborated on strategic AI initiatives, contributing to Python-based solutions supporting university-wide innovation and automation efforts
- Served as a primary engineering point of contact for a university-wide data modernization initiative, supporting the transition to a Databricks Lakehouse architecture
- Acted as sprint steward, facilitating agile ceremonies including sprint planning, retrospectives, and sprint reviews to improve team alignment and delivery consistency

Software Engineer

The College of Idaho

Feb 2024—June 2025, Caldwell, ID

- Delivered a fully containerized, full-stack web application to consolidate over ten disconnected legacy systems into a single interface, as well as introducing role-based access controls and significantly improving operational efficiency and security.
- Orchestrated the end-to-end design and implementation of a modern Drupal 11 web platform tailored for the Marketing department, including backend infrastructure, front-end UI components, and containerized deployment architecture.
- Established reliable CI/CD pipelines across multiple environments to optimize the build-test-deploy cycle and reduce deployment complexity for both legacy and newly developed applications.
- Consulted directly with business stakeholders, departmental leads, and external partners to collect requirements, scope tasks, and plan agile development sprints.
- Replaced fragmented toolchains with unified, reusable codebases and Dockerized workflows to improve maintainability and streamline developer onboarding.
- Transformed manual deployment procedures into automated pipelines integrated with Git workflows to increase release confidence and reduce deployment errors.

Software Engineer in Test (SDET)

Scentsy

Dec 2022—Feb 2024, Meridian, ID

- Wrote comprehensive automated test suites for front-end and API features to improve coverage reliability and catch regression issues early in the development cycle.
- Performed in-depth manual testing to validate feature behavior against user stories, compliance needs, and business expectations across multiple releases.
- Constructed complex SQL queries and data manipulation scripts to generate nuanced test datasets to enable accurate validation of edge cases and high-risk scenarios.
- Coordinated closely with developers, analysts, and product managers to clarify requirements, communicate test results, and prioritize defect remediation.
- Analyzed and resolved defects in .NET-based applications to contribute directly to improved application stability and reduced error recurrence across customer-facing platforms.
- Supported the incremental migration from a monolithic codebase to a distributed microservices architecture to validate inter-service functionality and ensure seamless rollout phases.

Software Tester

QualityLogic

Aug 2020—Sep 2021, Boise, ID

- Developed detailed, scenario-based manual test cases for web applications and executed them with precision using TestRail to identify discrepancies and provide clear defect reports.
- Verified story requirements and business logic through manual testing and guaranteed that software functionality matched expectations from both technical and user perspectives.
- Maintained and repaired broken test automation scripts to ensure long-term reliability and adapted existing code to changes in the product UI and underlying business logic.
- Evaluated system behavior across multiple test cycles while surfacing usability issues and inconsistencies that were addressed prior to production rollout.
- Worked within agile teams to synchronize test activities with sprint goals and supported the rapid delivery of high-quality features and updates.
- Documented and tracked bugs with comprehensive replication steps to increase the speed and effectiveness of developer response efforts.

EDUCATION

B.S Computer Science (In Progress)

The University of Idaho - Moscow, ID · 2025-Present

B.S Computer Science (Coursework completed / transferred)

The College of Idaho - Caldwell, ID · 2024-2025

SKILLS

Leadership: Agile Ceremonies, Sprint Planning, Retrospectives, Stakeholder Collaboration, Cross-Functional Communication

Languages & Frameworks: C#, .NET, ASP.NET, Razor Pages, Web API, JavaScript, TypeScript, Python, Groovy, Node.js, React, HTML5, CSS/SASS

Testing & Quality Engineering: Automated Testing, Selenium WebDriver, API Testing, Manual Testing, Test Case Design, TestRail, SQL Test Data Generation

Data & Databases: Oracle, PL/SQL, SQL, MySQL, MariaDB, MongoDB, DynamoDB, Data Modeling, Data Pipelines

Architecture & Engineering: Microservices Architecture, RESTful APIs, Domain-Driven Design (DDD), System Design, Legacy System Modernization, Scalable Systems Design

Cloud & DevOps: AWS, CI/CD, Docker, Git, Bitbucket, Azure, Containerization, Build & Release Pipelines