

Daniel Hirt

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PROFESSIONAL SUMMARY

Senior Software Engineer with 7+ years building backend systems and developer platforms, now leading AI adoption at Appian. Built Sidekick, an internal agentic platform used across 20+ engineering teams that catches ~88% of Critical and Major issues in code review before merge and has resolved on-call tickets end-to-end on the first attempt. Lead the architecture for enterprise data connectivity services, scaled from 50M rows to no upper limit, integrated first with Snowflake. Earlier work includes a UI for 300,000+ daily users and a low-code tool that cut internal app development from months to days.

SKILLS

Languages: Java, Go, TypeScript, Python, SQL, T-SQL

Databases and Warehouses: PostgreSQL, MariaDB, Oracle, DuckDB, Snowflake, InfluxDB

Frameworks: Spring, Angular, React, Hibernate

Infrastructure and Tools: Docker, Kubernetes, Liquibase, Git, REST APIs

AI: LLM applications, agentic systems, prompt engineering, agent evaluation

WORK EXPERIENCE

Appian — Senior Software Engineer

Sep 2024 - Present

McLean, VA

- Built **Sidekick**, an internal agentic platform used across 10+ groups and 20+ engineering teams at Appian. Catches ~88% of Critical and Major issues in code review before merge, and has resolved several Rapid Response on-call tickets end-to-end on first attempt, including for teams I had no prior context on.
- Took Sidekick from prototype to department-wide production after evaluating against thousands of historical tickets and code reviews; defined the evaluation criteria the team uses for new agent capabilities.
- Lead architecture for enterprise data connectivity services in Go, Java, and DuckDB. First integration (Snowflake) scaled past 50M rows and supports any row count.
- Set AI engineering direction for the group: agent patterns, evaluation strategy, and rollout. Coach other engineers on adopting agentic tooling in their own workflows.

Appian — Software Engineer II

Aug 2022 - Sep 2024

McLean, VA

- Built low-code data modeling tooling in Java and Go that abstracts SQL generation across multiple relational source systems.
- Designed real-time sync services on Go and DuckDB to keep enterprise customer data fresh between source systems and the Appian platform.
- Moved backend database management to Liquibase, cutting hand-written migration SQL across the team.
- Mentored junior engineers and interns through code reviews and design feedback.

TriNet USA — Software Engineer II / Technical Lead

Feb 2022 - Jul 2022

Indian Land, SC

- Led a team of contractors migrating a legacy AngularJS UI to modern Angular; launched to 300,000+ daily active users.
- Architected and built the foundational component framework for the new UI.
- Delivered a proof-of-concept for a low-code tool that cut internal app development from months to days.

TriNet USA — Software Engineer I

Jan 2020 - Feb 2022

Indian Land, SC

- Built REST APIs in Java and Spring Boot for a benefits administration platform; optimized the underlying data model to improve query performance by 30%+.
- Reworked the team's code review and QE process, increasing production deployment throughput by 20%.

PROJECTS

Kedge (github.com/danielhirt/kedge)

CLI that detects and remediates documentation drift in source code. Uses AST fingerprinting for language-aware change detection, classifies severity with LLMs, and dispatches agents to update docs and open merge requests.

Technologies: Rust, LLMs, AI Agents, AST Analysis

CipherSeal CLI

Command-line utility that watermarks content cryptographically to combat AI-driven disinformation.

Technologies: Go, Cryptography, AI Safety

Interpreter and Compiler

Compiler and interpreter for a custom C-like programming language.

Technologies: Go, Compilers, Language Design

EDUCATION

BS Computer Science, Minor in Mathematics

2019

University of North Carolina, Charlotte

GPA 3.96 | 1st Place, Innovative Computing Competition | Lead Teaching Assistant (2+ years)