

WILLIAM PRICE

AI Engineer & Full-Stack Developer

willvrd88@gmail.com | Mercer Island, Washington | github.com/william-price01 | linkedin.com/in/william-price1

SUMMARY

AI Engineer with a full-stack foundation and a track record of shipping production systems in both startup and enterprise environments. Currently leading development of an AI document-extraction platform at Alliant Insurance Services, built natively on Snowflake. Comfortable owning architecture end-to-end, working through ambiguous requirements with stakeholders, and unblocking myself when the path isn't paved yet.

PROFESSIONAL EXPERIENCE

AI Engineer — Alliant Insurance Services

April 2026 – Present

Hybrid

- Lead developer on a benefit extraction platform that turns uploaded benefit summaries into structured, Excel-ready benefit grids — cutting analyst extraction time from 30–50 minutes per document to about 2 — with output feeding downstream tooling.
- Architected the full system on Snowflake's native stack — React frontend and FastAPI backend in Snowpark Container Services, arq-based job queue, and managed Postgres with Alembic migrations — after Snowflake's own engineers considered this architecture unproven.
- Designed the extraction pipeline end-to-end: uploads to server-side-encrypted Snowflake stages, AI_PARSE_DOCUMENT with layout mode for markdown extraction, and AI_COMPLETE with hand-tuned structured output schemas matched to the real spreadsheet format.
- Built a custom evaluation system that scores extraction output against analyst-verified benefit grids, and used it to tune the structured output schemas to a consistent 85% accuracy.
- Added an analyst-controlled restyling pass after stakeholders found the strict schemas too rigid: per-field few-shot examples that can be toggled on or off, run as a second pass over the initial extraction.
- Extended the system with analyst-defined custom fields, each with its own prompt describing what to extract — new fields can join the main extraction pass or run afterward as a single-field job.
- Diagnosed intermittent connection failures to Postgres SNAT port exhaustion under concurrent load; resolved it by migrating to Snowflake-managed Postgres.
- Work directly with business stakeholders to define requirements, demo progress, and set the technical roadmap with minimal managerial oversight.

Founder & Engineer — Byzantine.ai

October 2025 – Present

- Designed, built, and shipped Byzantine.ai solo: an AI assistant for the Byzantine Catholic tradition that answers questions on theology, liturgy, and canon law with cited passages from primary sources — scripture, the Church Fathers, the CCEO, and official liturgical texts.
- Built the retrieval and citation pipeline over a curated corpus of Church documents, prioritizing source-grounded answers over generic model output.
- Built at the request of the Bishop of Phoenix; continue to maintain and expand the platform for clergy, seminarians, and educators.

Software Engineer — Airloom

June 2025 – September 2025

In-Person

- Contributed to an AI-powered video search platform as part of a cross-functional team.

- Engineered a validation workflow for Gemini model outputs using custom schemas, cutting false positive results by roughly 70%.
- Built responsive, accessible UIs in React backed by hosted Python APIs.
- Brought on full-time after demonstrating impact on product velocity and team collaboration.

Software Engineer — Griptape

June 2024 – June 2025

In-Person

- Built full-stack features for Griptape Cloud, improving usability and platform capabilities.
- Developed React UIs including GitHub repo selectors, asset managers, and data transform tools.
- Resolved complex data flow issues by architecting a custom serialization framework for Griptape structures — workflows and agents included — using custom Marshmallow schemas for efficient persistence.
- Led a customer-facing project building an AI agent-based CSV transformer that automated processing of complex music royalty statements, cutting manual data entry time by an estimated 95% on files over 100,000 rows.
- Standardized 20+ UI/UX components into a unified design system, accelerating new feature development for the whole team by an estimated 30%.

TECHNICAL SKILLS

Languages & Frameworks	Python, JavaScript, TypeScript, FastAPI, Django, React, SvelteKit, Marshmallow
Data & Infrastructure	Snowflake (Snowpark Container Services, Stages, AI_PARSE_DOCUMENT, AI_COMPLETE), PostgreSQL, Alembic, arq, REST APIs
Tools & Platforms	Git & GitHub, Neovim, Tmux, Linux, CI/CD
Key Concepts	AI Agents, LLM Extraction Pipelines, Structured Output, RAG, Serialization, User Experience (UX), Testing