

# Tom Porkka | AI Systems Engineer

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AI systems engineer specializing in retrieval systems, knowledge architectures, agent workflows, and software products for large-scale operational decision making

## Experience

**Meta** | AI Systems Engineer

Apr 2019 – May 2026

- Built AI agents, structured context and retrieval systems, and evaluation frameworks to automate workflows and support multi-billion-dollar backbone network investment decisions
- Developed large-scale data platforms (Hive, Presto, Python), semantic models, and knowledge systems that transformed fragmented network infrastructure data into a unified foundation for AI-driven planning and operational analysis
- Developed automation tooling to improve fiber infrastructure delivery throughput by ~30%
- Developed full-stack web applications supporting network service order management, capacity planning, financial forecasting, and network delivery used by thousands of colleagues

## Projects

**SplendidSets** | AI-Powered Performance Tool for Musicians

- Developed full-stack web application for managing songs, setlists, and live performance workflows
- Built AI-driven ingestion pipeline to convert unstructured text into structured songs, sections, and transitions

**Nulango** | Rapid Language Learning & Travel Tool

- Designed and developed web application focused on practical language learning and travel assistance for real-world scenarios
- Implemented full-stack architecture supporting translation, transliteration, text-to-speech, and location-aware travel guidance

## Skills

**AI** | Agent workflows, retrieval systems, structured context architectures, evaluation frameworks, tool orchestration, RAG

**Languages** | Python, TypeScript, SQL

**Frameworks** | React, Next.js

**Data & Infra** | Hive, Presto, Postgres, MySQL, Supabase, AWS, Azure, Vercel

## Education

Beloit College | B.S. Physics