

Tom Porkka | Full-Stack Engineer - AI Infrastructure & Data Platforms

Denver, CO (relocating to Bay Area) | thomasporkka@gmail.com | tomporkka.com | LinkedIn | GitHub

Nearly a decade building software, the last seven at Meta on AI agent harnesses, retrieval and evaluation systems, and the data platforms behind multibillion-dollar infrastructure decisions. Ships products from empty repo to live users, both inside large organizations and solo.

EXPERIENCE

[Telecom Market Intelligence Platform](#) | Technical Co-founder | *May 2026 – Present*

- Sole engineer on a market-intelligence platform for telecom network assets: data ingestion, entity resolution, retrieval and knowledge-graph layers, Next.js/TypeScript front end, auth, and deploys.

Meta | AI Systems & Data Platform Engineer (Network Infrastructure) | *Apr 2019 – May 2026*

- Led the Network Investments AI Program, engaging ~200 employees through training and collaboration while mentoring colleagues across eight AI projects.
- Designed and deployed an AI agent harness for Network Infrastructure teams enabling natural-language analytics, tool use, and domain context retrieval to support multibillion-dollar network investment decisions, automate critical workflows, and accelerate software development.
- Built retrieval and evaluation systems (golden datasets, LLM-as-a-judge) to ground AI outputs and track response quality, reaching >95% accuracy on infrastructure analytics questions.
- Designed and developed full-stack applications used by ~1,000 employees across capacity planning, sourcing, finance, and accounting teams, spanning network ordering, inventory, financial forecasting, and delivery workflows.
- Built data platforms (Python, Hive, Presto/Trino) unifying infrastructure data, and a semantic modeling layer that improved LLM analytics accuracy by ~50%.
- Developed AI-assisted automation that analyzed fiber test results and handover documents, reducing review and acceptance time by ~30%.

Summit Materials | Big Data Analyst (Technical Lead) | *Mar 2017 – Apr 2019*

- Led a team of seven analysts and data engineers building enterprise data warehouses, pipelines, and reporting systems for mining operations and corporate teams.
- Built multivariate forecasting models for production and sales planning, improving forecast accuracy by 8% over prior methods.

PROJECTS

- [Northbound](#): AI powered financial research platform with market data, investment drivers and supply-chain ontology, and portfolio-aware investment guidance.
- [SplendidSets](#): Live-performance app for musicians. Designed a plain-text DSL for song and setlist editing, ingestion from unstructured text and photos, and offline ready live performance mode.
- [Nulango](#): Language-learning and travel app with live translation and location-based guidance.

SKILLS

Languages & Frameworks | TypeScript, Python, SQL, React, Next.js, Node.js, React Native / Expo

AI | LLM harnesses, agentic workflows, tool calling, retrieval systems, evaluation frameworks, MCP

Data & Infra | PostgreSQL, MySQL, Hive, Presto/Trino, distributed systems, AWS, Azure, Vercel, CI/CD

EDUCATION

Beloit College | B.S. Physics