

# Tim Roller, CFA

San Francisco, CA

AI Engineer · 15 years across trading, data, and AI

I build AI-powered tools that make data teams faster — from self-serve dashboards via natural language to agentic research systems with RAG over SEC filings. Prior life as a derivatives trader means I think natively in time-series data, probabilistic systems, and building under uncertainty.

## EXPERIENCE

### Data Analyst / AI Engineer

#### New Relic, San Francisco

09/22 – Present

- Lead AI adoption across the Analytics org — demos, prompt engineering workshops, anti-pattern reviews, and context management strategies for junior through lead analysts
- Designed and maintained the \$1Bn ARR Cash Treasury data model used to report and forecast revenue at the customer invoice level
- Built a Slackbot demoed to the COO that lets stakeholders self-serve Tableau dashboards through natural language, powered by Gemini Flash 2.0

### Senior Data Analyst

#### Federal Home Loan Bank of San Francisco

06/17 – 02/21

- Recruited by the Chief of Staff to modernize regulatory data reporting and build automated, secure data collection systems across departments
- Reduced manual reporting cycles from weeks to days using Python automation; documentation passed Federal Regulator and Internal Audit

### Equity Research Associate

#### Icefield Capital, San Mateo

08/14 – 09/16

- Led quantitative research for a \$100M family office (Biotech/momentum). Built ETL pipeline from Bloomberg API to PostgreSQL for model backtesting

### Senior Trader

#### Saiers Capital, San Francisco

08/11 – 08/14

- Executed derivatives trades for a \$700M volatility hedge fund across options, futures, equities, bonds, FX, and exotics with major Asian banks




### Trader

#### Cutler Group, San Francisco

07/08 – 08/09

- Proprietary market maker in equity derivatives (100+ stocks/ETFs) on the Pacific Exchange floor. Modeled takeover scenarios with the CEO to assess implied volatility and term structure impact

## LINKS

-  [GitHub](#)
-  [LinkedIn](#)
-  [Website](#)

## EDUCATION

### UC Berkeley

Dept. of Civil Engineering  
B.S. 2007 · M.S. 2008

## STACK

Python · SQL · dbt  
TypeScript  
Snowflake · Airflow  
Claude Code  
Claude Agent SDK  
RAG · ChromaDB · MCP  
Gemini · LangChain  
Tableau · Looker  
FastAPI · Docker

## BUILDING

### Finance Research Agent

Claude Agent SDK, RAG over SEC 10-K filings (ChromaDB), 7 custom MCP tools, multi-agent research

### Automated Trading System

Factor scoring, regime detection, narrative risk overlay, AI thesis generation

### Health Analytics Platform

Python, SQLite, Apple Health integration, AI-powered journaling