

Ryle Goehausen

Director of Engineering

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SUMMARY

Engineering leader with 12+ years in distributed systems, data platforms and machine learning. Today: LLM security and inference optimization, U.S. Air Force / DoD supply-chain security, and open-source leadership.

EXPERIENCE

Constellation Network

Director of Engineering

September 2021 – Present

San Francisco

- Technical lead for a multi-year **U.S. Air Force / DoD supply-chain security program**: built the research prototype, then led the team delivering a platform for securing and verifying defense supply-chain data.
- Built **Gate AI**, a prompt-injection and jailbreak detection model for LLM applications: 97.4% F1 at a 1% false-positive rate across 16 public benchmarks (12,111 samples), with the evaluation methodology published on arXiv.
- Prototyped an **LLM pipeline for HIPAA-regulated health data** on **Amazon Bedrock**, with isolated environments for protected health information and a hybrid model combining traditional ML with LLM-derived features.
- Applied **LLM compression and KV-cache optimization** to cut inference memory, latency and serving cost.
- Lead the company's open-source project: roadmap, architecture, code review and releases.

Bloomberg LP

Senior Software Engineer

August 2019 – September 2021

San Francisco

- Portfolio Analytics (PORT) Data Transparency team: built the greenfield prototype of a Parquet-based Portfolio Enterprise Data Lake for large enterprise customers.
- Integrated time-series storage and analytics with BQL for batch financial reports.
- Contributed Jupyter and Spark portfolio notebooks to the Bloomberg Data Science Platform; internal Spark contributor.

Constellation Labs

VP of Engineering

April 2018 – July 2019

San Francisco

- Founding engineer and engineering lead for the company's open-source distributed data platform.
- Built the early core system; grew and led the team, owning hiring, planning, releases and documentation.

Salesforce Inc

Senior Performance Engineer

March 2017 – April 2018

San Francisco

- Einstein Readiness (big data / ML) team: contributor to TransmogrifAI, Salesforce's open-source AutoML library for Spark.
- Owned performance for TransmogrifAI-powered products: Sales Cloud Lead Scoring, Marketing Cloud Einstein Engagement Scoring, Einstein Prediction Builder and Service Cloud Case Classification.

Radius Intelligence

Data Scientist

September 2013 – March 2017

San Francisco

- Built the company's first Spark cluster on AWS and migrated the data pipeline from Cascading to Scala Spark.
- Scaled marketing segmentation from single-machine Python to distributed Scala, Spark and Algebird.
- Developed ML models for business de-duplication, lead scoring and customer-signal analysis across CRM integrations.

PUBLICATIONS & WRITING

- R. Goehausen, M. Sousa. **Gate AI: LLM Security Benchmark Evaluation Methodology and Results**. arXiv, 2026.
- R. Goehausen. Gate AI blog, Aug 2026: **Your system prompt is not a security control; Frontier models fall to attacks you can script**.

SKILLS

Languages: Rust, Python, Scala, Java, TypeScript, C++, SQL, Lean 4

AI / ML: LLM security & evaluation, LoRA fine-tuning, quantization, KV-cache optimization, vLLM, PyTorch, CUDA, Amazon Bedrock, Spark ML

Data: Spark, Arrow, Parquet, Lance, PostgreSQL, data lakes

Infrastructure: Kubernetes, AWS, Docker, Terraform, CI/CD, GPU clusters

EDUCATION

University of California, Santa Cruz

Physics · 2006–2010

- Undergraduate intern, Santa Cruz Institute for Particle Physics: MILAGRO and VERITAS gamma-ray detector calibration.