

Nahom Doelaso

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San Francisco, CA

EXPERIENCE

Axiom Math

Palo Alto, CA

Research Engineer, Intern to Member of Technical Staff

Sep 2025 – Apr 2026

- Designed and executed quantitative evaluations across **36+ models** and **16+ benchmarks**, running **220+ experiments** to characterize **mathematical-reasoning failure modes** and inform model improvements
- Built and optimized **PyTorch evaluation infrastructure** for **7M+ model-example evaluations** across **445K+ unique examples**, scaling to **812+ concurrent workers** and **500K+ examples/hour**
- Translated experimental findings into evaluation pipeline improvements, delivering **6x faster** runtimes

Lam Research

Fremont, CA

Process Engineer I, Epitaxial Sustaining R&D

Sep 2024 – Aug 2025

- Applied **design-of-experiments** and **statistical analysis** across **12 process parameters**, conducting **48 DOE experiments** and analyzing **120 wafer lots** to isolate sources of **wafer-to-wafer** and **lot-to-lot variability**, achieving **18% process variability reduction**
- Improved epitaxial process yield by **0.7 percentage points** through **DOE-driven parameter optimization** and root-cause analysis; led **8 root-cause investigations** on process excursions with cross-functional engineering teams, delivering improvements **adopted into standard operating procedures**

Greywolf Capital Management LP

San Francisco, CA

Research Intern (Quantitative)

May 2024 – Aug 2024

- Engineered **35 microstructure features** from **12M order book tick-data records** to capture **market microstructure signals** supporting trading strategy development
- Applied **t-SNE** and visualization techniques to **512 neural activation dimensions** to uncover latent structure, informing probabilistic model analysis and optimization of trading strategies
- Developed **domain-adaptation (Sim2Real) pipelines** using morphological preprocessing, conducting **24 Sim2Real experiments** with **12% performance improvement**; evaluated **20 trading strategy variants**

PROJECTS

FairffFix | *Python* | github.com/homi8/FairffFix

2026

- Built a lightweight framework for orchestrating **multi-agent workflows sequentially**, enforcing **state consistency** across data passed between agents

Ts-Thernmics | *TypeScript, THRMML* | github.com/homi8/Ts-Thernmics

2026

- Built an engine simulating **thermal dissipation and cellular growth** in biological tissue models using **finite element methods**; validated against academic literature data points

TECHNICAL SKILLS

Languages: Python, C/C++, Rust, TypeScript, JavaScript, SQL, Bash

ML & Evaluation: PyTorch, JAX, NumPy, Pandas, benchmark design, model evaluation, probabilistic modeling

Methods: Statistical analysis, experimental design, feature engineering, dimensionality reduction (t-SNE), domain adaptation (Sim2Real), formal verification (TLA+)

Additional: Semiconductor process engineering, root-cause analysis, VLSI, Verilog

EDUCATION

San Francisco State University

San Francisco, CA

B.S., Electrical Engineering, Interdisciplinary Signals, Systems, and Sensing

- Departed, pursued industry

Proof School

San Francisco, CA

Mathematics; BAMO math, AIME qualifier

class of 2026