YANG YAN

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S.B. Mathematics
S.B. Computer Science

MIT · 4.5/5.0
2017-2021 [on leave], 2025 [graduated]

Matrix Algorithms · Database Systems
Probability and Random Variables
Group Theory · Advanced Algorithms
Randomized Algorithms

USACO Finalist 2014
USAMO Qualifier 2013, 2015, 2016
ISEF Finalist 2016

Languages: C++, Python, TS, TeX
Frameworks: torch, jupyter, React
Tools: Docker, Postgres, (n)make, git
Platforms: Proxmox, WinAPI, Android

Rain

gilgamesh.cc · 2015+

Cross-platform, standalone C++20 libraries for HTTP/SMTP and select advanced algorithms: vectorization-friendly tensors, policy-based segment trees, etc. Engineered for performance and clean conceptual inheritance.

Xena

s.gilgamesh.cc/50 · 2024+

SVG-based notetaker for handwriting on e-ink Android tablets and Windows devices with pen support.

Silverine

s.gilgamesh.cc/51 · 2025+

A LaTeX Beamer alternative in Markdown, for technical presentations, with KaTeX, VSCode and print support.

Researcher, Machine Learning

with Ethan Perez @ Anthropic · 2024-2025

"Towards Safe Language Model Fine-tuning APIs"

- Evaluated over 20 dataset ciphers to measure their impact on model internals during a Covert Malicious Fine-tuning (CMFT) attack.
- Developed hardening datasets & post-training defenses against CMFT-like fine-tuning attacks.

Product Manager, Payments

Nuvo Technologies · 2023-2024

- Translated complex customer, banking, and stakeholder requirements into a detailed technical product scope for Nuvo's first payments platform.

Software Engineer, Risk

Ramp · 2021-2022

- Modeled credit, fraud, and operations risks, for an expected ~80% ≈ 5mm annual fraud averted.
- Engineered a 10% (~20ms) reduction in latency for the production risk model, directly improving user experience on billions of dollars in volume.

Intern, Quantitative Research

D. E. Shaw & Co. · 2020

- Developed a high-fidelity, multi-agent market simulator to backtest systematic trading strategies.
- Implemented agents with personalized alpha forecasts and risk profiles, optimizing for Sharpe ratio and P&L across various market volatilities.

Previous : Intern @ ***Scale AI***, Intern @ ***Microsoft***

Researcher, Machine Learning

with Greg Wornell @ MIT · 2020-2021

"Adversarial Examples in Simpler Settings"

- Derived robustness measure for classifier features (pen-ultimate NN layer), discarding the lowest of which will naively improve model robustness.