

Hristo Todorov

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EDUCATION

Stanford University

Bachelor of Science in Mathematics
Master of Science in Computer Science
Minor: Classics

Stanford, CA

09/2022 – 06/2026

11/2025 – 12/2026

Relevant Coursework: Deep Reinforcement Learning, Deep Learning for Computer Vision, Design and Analysis of Algorithms, Operating Systems Principles, Computer Science Research, Modern Algorithmic Toolbox, Probability, Lebesgue Integration and Fourier Analysis, Linear Algebra and Multivariable Calculus, Combinatorics, Number Theory for Cryptography, Linear Algebra and Matrix Theory.

EXPERIENCE

Loop

Machine Learning Engineering Intern

San Francisco, CA

06/2025-09/2025

- Designed infrastructure for scalable inference processing spend for freight audit & pay.
- Led the development of a contrastive learning model for payment geocoding, outperforming state-of-the-art commercial models.
- Developed a speculative decoding algorithm, reducing the inference costs by 30%.

Stanford Artificial Intelligence Laboratory

Research Intern

Stanford, CA

06/2023-06/2025

Hazy Research (Prof. Christopher Ré), 08/2024 - Present:

- Designed an automated framework for designing inference-time LLM architectures.
- Accepted to ICML 2025 (<http://www.arxiv.org/abs/2409.15254>).

Stanford ILIAD (Prof. Dorsa Sadigh), 06/2023 - 06/2024:

- Designed and implemented a custom mode-switching algorithm in robomimic based on observation difficulty, achieving 15% increase in success rate.

VALUENEX (Japanese Data Analytics & Consulting company)

Machine Learning Engineering Intern

Palo Alto, CA

06/2024-09/2024

- Forward Deployed ML Engineer and Consultant for ENEOS, a Fortune 500 Japanese petroleum company. Built a materials science expert model to optimize the discovery process.
- Proposed a novel fully encryption system for data analytics to enhance the security of dimensionality reduction techniques in collaboration with the US AirForce. Engineered a fast model linearization and quantization pipeline in C++ to support fully homomorphic encryption, making it 3x faster.

Research Science Institute

Research Scholar

Cambridge, MA

06/2022-08/2022

- Selected as one of the 82 students worldwide to participate in the Research Science Institute, a six-week cost-free summer program at MIT.
- Developed various data encoding methods and demonstrated how encoding has a vast impact on final model interpretability. Improved tumor suppressor gene prediction model by 20%.

SKILLS & INTERESTS

- *Programming:* Python (pytorch, scipy, numpy, matplotlib, django, scikit-learn), Java (Android, FX), C++ (multithreading), Linux (Arch), Docker, LangChain, HTML, CSS, Typescript, MapReduce, Apache Spark, MongoDB
- *Interests:* Machine Learning, Parallel Computing, Optimization Theory, Data Visualization, Cryptography, Security
- *Hobbies:* Tennis, Calisthenics, Reading Science Fiction (e.g. Robert Heinlein) & Philosophy (e.g. Viktor Frankl)