

COLIN WOLFE

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EDUCATION

Dartmouth College , Hanover, NH	AUG 2023 — MAY 2027
<i>Bachelors of Engineering, Majors in Computer Science and Artificial Intelligence</i>	GPA 3.81/4.0
Relevant Coursework: Machine Learning, Deep Learning, AI Robustness, Algorithms, Linear Algebra, Systems, Full-Stack Dev	
Activities: Teaching Assistant CS50, Phi Delta Alpha Fraternity, Startup Programming, Neukom Scholar, Math Reading Program	
Chinese University of Hong Kong , Hong Kong SAR, China	AUG 2025 — DEC 2025
Incoming Exchange Student in Electrical Engineering	
Commonwealth Governor's School , Spotsylvania, VA	SEP 2019 — MAY 2023
Honors/Awards: Valedictorian, Dunkin Donuts' DMV Scholar, National Rural Scholar	GPA 4.0/4.0

WORK EXPERIENCE

Benchify , San Francisco, CA	JAN 2025 — MAR 2025
<i>Machine Learning Engineer</i>	
<ul style="list-style-type: none">Developed AI-driven code analysis tools at a Y Combinator-backed startup, improving automation workflows with ML.Optimized RAG pipelines for vector database using embeddings & similarity for search retrieval with <1 second latency.	
GraphMind & Distributed Intelligence Lab , Hanover, NH	DEC 2024 — PRESENT
<i>Machine Learning Research Assistant</i>	
<ul style="list-style-type: none">Research cutting-edge probabilistic benchmarks to analyze emergent capabilities in models with <8 billion parameters.Implement data-efficient training through curriculum learning, knowledge distillation, and latent space representation.Engineer knowledge graphs to increase LLM reasoning in multi-agent debates by an average of 5% per agent.	
Versara.ai , Cambridge, MA	SEP 2025 — PRESENT
<i>Co-Founder</i>	
<ul style="list-style-type: none">Co-founded content protection startup, raising \$10,000+ pre-seed and in negotiations with 500,000+ user blogging serviceBuilt novel data poisoning algorithm, scalable servers, and a robust API endpoint that blocks 100% of top AI scrapers.Presented scraping protection technology at MIT AI Privacy and Security Night with live algorithm demonstration.	
Probity Inc. , Herndon, VA	MAY 2024 — AUG 2024
<i>Software Engineering Intern</i>	
<ul style="list-style-type: none">Prototyped human-in-the-loop ML paradigm for language verification with 200x better accuracy than traditional training.Configured 8 Intel NUC servers and optimized 2 ML algorithms for CPU performance, speeding up processes by >20%.	
DALI Lab , Hanover, NH	NOV 2023 — PRESENT
<i>Machine Learning Engineer, Hiring Lead</i>	
<ul style="list-style-type: none">Lead ML teams of 4+ engineers, conducting code reviews, mentoring, project architecture, and system designBuilt platform used by all Geisel first-year med students & boosted National Park Service image recognition by 8%.Devised algorithms for image recognition, predictive modeling, and empathetic speech generation using SOTA models.Manage evaluation of 150 new applications annually and creating efficient interview scheduling algorithm.	
Thomas Jefferson National Particle Accelerator Facility , Newport News, VA	JUN 2022 — JUL 2022
<i>Software Engineering Intern</i>	
<ul style="list-style-type: none">Constructed AI surrogate models of scientific code for the Parallel Hardware via Surrogate Models project.Architected physics-informed neural networks achieving MSE <.001 for approximating differential equation solutions.Wrote bash scripts reducing installation steps by 67% across various operating systems.	

PERSONAL PROJECTS

Speech to Terminal (SPOT)	Nov 2024 — Dec 2024
<ul style="list-style-type: none">Created voice-controlled shell interface integrating speech recognition and LLM API for text-to-command execution.	
Tiny Search Engine	Jan 2024 — Apr 2024
<ul style="list-style-type: none">Developed a crawler, indexer, and querier using C that implements page-rank algorithm for a database with 50,000 pages.	
Skin Cancer Classifier	Sep 2022 — Jun 2023
<ul style="list-style-type: none">Designed convolutional neural network with 96% accuracy and <1 second web inference time using Python and Flask.	
Other Projects	Aug 2019 — Present
<ul style="list-style-type: none">Also made a part of speech tagger with 93% accuracy, Rust wc bash command, & an adversarial image transformer	

SKILLS

Programming Languages: Python, Java, C, C++, Rust, Bash, JavaScript, HTML/CSS, SQL
AI & ML: PyTorch, TensorFlow, Fast.ai, Scikit-learn, Jupyter Notebook, OpenCV, Ollama, LangChain, Pandas, Numpy, CUDA
Development: AWS, Git, Docker, Flask, React, FastAPI, Nginx, *nix Systems, Valgrind, GDB, Agile, MySQL, Render, Wireshark
Expertise: Deep neural networks, large language models, model fine-tuning, image recognition, technical leadership, design