COLIN WOLFE

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EDUCATION

Dartmouth College, Hanover, NH　　　　　　　　　　　　　　　　　　　　**EXPECTED MAY 2027**
Bachelors of Engineering, Computer Science and Electrical Engineering　　　　**GPA 3.81/4.0**
Relevant Coursework: Machine Learning, Full-Stack Dev, Algorithms, Systems Programming, Deep Learning, Security and Privacy
Activities: Teaching Assistant CS50, Neukom Scholar, Lovelace Scholar, Phi Delta Alpha Fraternity, Algorithms Tutor

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**

SKILLS

Programming: Python, Java, C, C++, Rust, Bash, JavaScript, HTML/CSS, SQL
AI & ML: PyTorch, TensorFlow, Fast.ai, Scikit-learn, OpenCV, OLlama, LangChain, Pandas, Numpy, CUDA
Full-Stack: React, MongoDB, Render, RestAPI, Firebase, Node.js, Next.js, Vite, Redux, Zustand
Development: AWS, Git, Docker, Flask, Nginx, *nix Systems, Valgrind, GDB, Agile, Wireshark, FastAPI
Expertise: Deep neural networks, large language models, full-stack dev, systems programming, technical leadership, design

WORK EXPERIENCE

Benchify, San Francisco, CA　　　　　　　　　　　　　　　　　　　　　　**JAN 2025 — MAR 2025**
Software Engineering Intern
- 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, Hanover, NH　　　　　　　　　　　　　　　　　　　　　　　**DEC 2024 — PRESENT**
Research Assistant
- 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**
Co-Founder
- Co-founded content protection startup, raising **$10,000+** pre-seed and in negotiations with 500,000+ user blogging service
- Built 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**
Software Engineering Intern
- 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 >**15%**.

DALI Lab, Hanover, NH　　　　　　　　　　　　　　　　　　　　　　　　**NOV 2023 — PRESENT**
Machine Learning Engineer, Hiring Lead
- Lead ML teams of **10+** engineers, conducting code reviews, mentoring, project architecture, and system design
- Built platform used by ~**150** 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 **200** new applications annually and created efficient interview scheduling algorithm.

Thomas Jefferson National Accelerator Facility, Newport News, VA　　　　　**JUN 2022 — JUL 2022**
Engineering Intern
- 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.

PROJECTS

Speech to Terminal (SPOT)　　　　　　　　　　　　　　　　　　　　　　**Nov 2024 — Dec 2024**
- Created voice-controlled shell interface integrating speech recognition and LLM API for text-to-command execution.

Tiny Search Engine　　　　　　　　　　　　　　　　　　　　　　　　　　**Jan 2024 — Apr 2024**
- Developed a crawler, indexer, and querier using C that implements page-rank algorithm for a database with **50,000** pages.

Other Projects　　　　　　　　　　　　　　　　　　　　　　　　　　　　**Aug 2019 — Present**
- Made a part of speech tagger with **93%** accuracy, Rust wc bash command, an adversarial image transformer, and more.