

Morris Lin

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Education

Virginia Tech

Bachelor of Science in Computer Science

Dean's list, GPA: 3.77

Relevant coursework: Deep Learning, Compiler Design, Linux Kernel Programming, Computer Systems Capstone

Blacksburg, Virginia

2026

Experience

Research Intern - Computational Fluid Dynamics

National Center for HPC

- Optimized GPU kernel performance through low-level PTX assembly analysis and memory access pattern improvements
- Ported legacy weather simulation codebase to CUDA, achieving 6x speedup over original OpenMP implementation
- Diagnosed and resolved performance bottlenecks using profiling tools, reducing computation time for critical simulation components

Hsingchu Taiwan

May 2025 - Aug 2025

Device Verification Intern

Tenafe Inc.

- Refactored SPI testbench codebase in C to improve maintainability and compliance with modern C standards
- Debugged hardware designs by controlling SPI module through C-based test drivers and analyzing waveforms in Verdi to verify correctness
- Collaborated with hardware designers to enhance Serial Peripheral Interface (SPI) testbench coverage and functionality

Campbell, California

May 2024 - Aug 2024

Projects

Threadpool

- Designed a multi-threaded worker pool in C using pthreads, achieving 2nd place performance out of 200 students through systematic profiling with perf tools
- Optimized critical sections and reduced contention through lock-free synchronization techniques and efficient task queue management
- Documented optimization strategy and experiments in a 20-page technical write-up published on my website

March 2025

Micro C Compiler

- Built a compiler for Micro C (subset of C), implementing parsing, semantic analysis, heap allocation, pointer support, and register allocation.

December 2025

Awards

Best Technical Award - VT Startup Sprint

- Developed an agentic GIS web application in React and TypeScript over a 5-day sprint, earning Best Technical Award among competing teams
- Architected an AI-powered system for automated geospatial data analysis and visualization with intuitive user interface
- Secured acceptance into Virginia Tech's startup incubator program to continue development

September 2025

ICPC Mid-Atlantic Regional Programming Competition

- Placed 1st among Virginia Tech teams and top 10 out of 100+ university teams across 6 Mid-Atlantic states
- Collaborated in a 3-person team to solve algorithmic challenges under time pressure using C++ and advanced data structures
- Demonstrated proficiency in dynamic programming, graph algorithms, and optimization techniques in a high-stakes competitive environment

November 2024

Taiwan International Science Fair

- Second Tier Award in Behavioral and Social Sciences placing second in the category in the biggest high school Science Fair Competition in Taiwan.
- Trained a rodent on a novel behavioral cross-modal selective attention task to aid in further neuroscience research into modality switching of attention
- Wrote a formal research report and presented results, detailing behavioral task design, data-collection methods, and statistical analysis

January 2022