

Kevin Shan

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EDUCATION

Georgia Institute of Technology

Atlanta, GA

B.S. in Computer Science, Minor in Mathematics — GPA: 4.0

Expected Graduation: May 2026

- **Skills:** C++, C, Rust, perf/hotspot, Linux, Python, C#, Java, Git

EXPERIENCE

Software Engineer

Aug. 2026

Jane Street Engineer

New York City, NY

- Incoming full-time Software Engineer at Jane Street.

Quantitative Developer Intern

June 2025 - Present

Citadel, Global Quantitative Strategies: C++, perf, hotspot, gRPC

Chicago, IL

- Developed automated logging and telemetry systems for performance monitoring, for systematically profiling client-side CPU vs RPC runtimes, stack traces, memory usage, and fine-grained metrics for individual queries.
- Used these systems, alongside tools like **perf**, **hotspot**, **valgrind** and more, to identify and resolve performance issues in production, achieving significant speedups and improvements, improving query latency in many cases by **10x**, and memory overhead by **8x**.
- Designed and built a latency-critical component of the trading path responsible for ingesting market data and generating signals to support real-time decision-making in short-horizon strategies.

Undergraduate Researcher

May 2024 - Present

Georgia Institute of Technology, Computer Architecture Lab: C++, C, perf

Atlanta, GA

- Investigating how CXL can be used as a substitute for RDMA/networking to transform message-passing distributed server architectures into shared-memory systems.
- Researching hardware-software co-designed solutions for memory-side fault tolerance in CXL disaggregated systems.
- Benchmarked memory access latency various computer architectures, estimating component-wise latency (cache, interconnect, DRAM) with a variety of hardware counters and profiling tools.

EXTRACURRICULARS

ICPC World Finalist, North American Championship Bronze Medalist

May 2025

International Collegiate Programming Contest

Atlanta, GA

- Won a bronze medal at the 2025 ICPC North American Championship, placing 6th and qualifying Georgia Tech for the 2025 ICPC World Finals.

Lead Developer

Sep. 2023 - Present

Quantitative Development Team: Trading at Georgia Tech

Atlanta, GA

- Designed and deployed a comprehensive high-frequency trading system for cryptocurrencies using **Rust**.
- Developed and benchmarked custom memory allocators (stack, huge-page aware, ring) and cache-efficient orderbooks, each optimized for distinct workload characteristics.
- Led development by assigning projects, reviewing code, and mentoring new members in systems programming.

Competitive Programming

Aug. 2020 - Present

All competitions done in C++. Placements labeled on the left.

- **(250/5k)** USACO (United States Computing Olympiad) Platinum Division
- **(200/30k)** Meta Hacker Cup, 2-time Top 200, Round 3 Qualification
- **(1k/30k)** Google Code Jam Round 3 Qualification
- **(41/20k)** Google Kickstart Round F, 41st place globally
- **(21/3k)** Codeforces “International Master” (rated 2378), ranked 21st in U.S. and top 0.5% of 150k+ globally

PROJECTS

Ringbook

July 2024

C++

<https://github.com/kevins19/ring-orderbook>

- Built a flat, stack-based, zero-alloc orderbook using an indexed ring buffer, achieving constant-time operations and a 3× speedup over `std::map` in real-time exchange workloads.