Maria Garcia

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Quantitative Developer focused on ultra-low latency execution systems and C++ kernel optimization. Strong background in mathematics and network programming for algorithmic trading.

SKILLS

Core Competencies: C++20, Python, Linux Kernel Optimization, TCP/IP Networking, Boost, CUDA

EXPERIENCE

Quantitative Developer at AlphaStream Capital

New York, NY • Jan 2019 - Present

- Optimized C++ order execution engine, shaving 2.5 microseconds off critical path latency.
- Implemented custom network stack bypassing Linux kernel for direct nic communications (kernel bypass).
- Collaborated with researchers to deploy multi-asset statistical arbitrage strategies.

C++ Software Engineer at HighFrequency Tech

Chicago, IL • Jul 2016 - Dec 2018

- Maintained market data feed handlers for NASDAQ and CME.
- Reduced memory allocation bottlenecks in the matching engine.

PROJECTS

FastPCap

Zero-copy packet capture library written in C++ for analyzing market data microbursts.

Tech: C++, DPDK

EDUCATION

M.S. Financial Engineering

Columbia University • 2016

B.A. Physics

University of Chicago • 2014