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EXPERIENCE

Software Engineer, Trading — Jump Trading, Chicago — 2019-Present

Began on the Core Development team and moved to a large trading team at the firm. Worked with several others as part of a team focused on 'clean slate' development of a trading engine for options. Contributed many pieces to the effort, ranging from automatic python binding generation via the **Clang AST** to a high performance, low latency app metadata emission system used for realtime post-trade analysis. Mostly wrote in C++, with some diversions to learn **CMake**.

Strats Associate, QVT — Goldman Sachs, Hong Kong — 2018-2019

Worked on the Listed Options, Warrants and Callable Bear Bull Contract desk, trading in Hong Kong, Japan and India. Ported the research/scripting interface from C++ ↔ Slang to **C++ ↔ Python**. Designed a **Layer 1** switching topology minimizing tick-to-trade and timestamping all actions. Worked on the creation, deployment, and benchmarking of a new **Fast Delete** system, designed and wrote the **tick-to-trade analysis** (hardware timestamps taken at the Layer 1 switch and network card) in C++ and **Pandas**.

Strats Associate, QVT — Goldman Sachs, New York — 2017-2018

Took over maintenance and improvement in our consolidated networking library. This library provides a generalized and concrete framework for publishing option theoretical values, normalized market data, trading events in remote colocations, and information about our quotes in local and remote colocations.

Strats Analyst, QVT — Goldman Sachs, New York — 2015-2017

Worked on the infrastructure team on the Options Market Making business. Mainly worked in **C++,** with analysis done mostly in **Python** and Slang. Worked on the core networking and memory management libraries for the group, including the **InfiniBand** code, which was improved with Management Datagram monitoring. Wrote a multicast line to thread scheduler for our consolidated networking library.

Strats Summer Intern, Quant Vol Trading — Goldman Sachs, New York — Summer 2014

Wrote code in **C++** for automated market making in options, and an order routing system for equities. My modifications were in production by the end of the summer.

EDUCATION

B.S. Computer Engineering — Illinois Institute of Technology — 2011-2015

AWARDS

Camaras Scholar
[1 of 30 in my class]

Duchossois Leadership Scholar — Member of the Inaugural Class
[1 of 3 in my class]

ENGINEERING SKILLS

C++ and Python Programming, Linux Systems Programming and Administration, InfiniBand, Ethernet/IP Multicast, Layer 1 Switching, Kernel Bypass, Technical Research, LaTeX.