


AMARJEET VISHWAKARMA

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PROFESSIONAL SUMMARY

Software Developer specializing in ultra-low-latency trading systems and High-Frequency Trading (HFT) with expertise in multi-threaded application development, socket programming, and exchange connectivity. Proven experience building high-performance trading gateways processing millions of trades daily for Order Management, Market Data Processing, and DropCopy workflows across multiple exchanges.

SKILLS

Programming Languages: C++, Java

Core Technologies: STL, Boost (Asio, Thread, Lockfree), OpenSSL, Multi-threading, POSIX Threads

Databases: MySQL

Networking & Protocols: FIX Protocol (4.2/4.4), RabbitMQ, Winsock, POSIX Sockets, TCP/UDP/Multicast, HTTPS, WebSocket

Trading Systems: Order Gateway, Market Data Gateway, DropCopy Implementation, Exchange Connectivity (NSE, BSE, MCX, IIBX, Crypto ByBit)

Development Tools: Git, SVN, CMake, GDB

Operating Systems: Linux, Windows

Specialized Skills: Low-latency Systems, Socket Programming, Performance Optimization, Lock-free Programming

EXPERIENCE

Software Developer | Finsol Tech, Noida (December 2023 – Present)

- Developed a high-performance multi-exchange trading gateway supporting Order Management, Market Data Processing, and DropCopy workflows, processing millions of trades daily.
- Engineered an ultra-low-latency High-Frequency Trading (HFT) order execution system using **C++**, **Boost.Asio**, **Winsock**, and **POSIX** Sockets across both Windows and Linux environments.
- Implemented real-time market data handlers for **BSE**, **NSE**, **MCX**, **IIBX**, **Crypto ByBit**, optimizing latency to microsecond levels, maximizing throughput, and ensuring system stability.
- Designed and integrated a **DropCopy module** for trade reconciliation, auditing, and exchange compliance.
- Integrated **RabbitMQ** and **FIX Protocol (FIX 4.2 / 4.4)** for efficient message routing and connectivity between trading components.
- Optimized **multithreading**, **memory usage**, **lock contention**, and **network communication paths** to improve overall system performance.
- Implemented secure **AES-128-GCM** and **AES-256-GCM** encryption/decryption flows using **OpenSSL 1.1.1** and **3.4.0**.
- Worked on **Crypto Exchange Market & Order Gateway** modules, enhancing reliability and message sequencing.

Software Engineer Intern | Finsol Tech, Noida (June 2023 – December 2023)

- Developed **socket programming modules** for secure communication and heartbeat transfer.
- Built a **log-handling system** for real-time log monitoring of financial transactions.
- Gained hands-on experience in OMS (Order Management System), exchange connectivity, and full order lifecycle management.

Data Verifier | Ocrolus Est Pvt Ltd., Gurugram (December 2020 – September 2022)

- Validated documents using proprietary software tools.
- Processed bank statements, identification cards, and other financial documents with high accuracy.
- Ensured data quality and compliance with verification standards.

PROJECTS

Multi-Exchange Trading Gateway – Finsol Tech, Noida

Designed and built a high-performance High-Frequency Trading (HFT) gateway from scratch for Order Management, Market Data Processing, and DropCopy Handling across BSE, NSE, MCX, IIBX, and Crypto (ByBit) on Windows & Linux, successfully processing millions of trades daily.

- **Order Gateway:** Built an ultra-low-latency **HFT** order execution engine with **microsecond-level** response times to process millions of trades daily.
- **Market Data Gateway:** Developed a **real-time market data processing engine**, ensuring fast and accurate data dissemination with minimal latency.
- **DropCopy Gateway:** Implemented an **automated trade reconciliation system** for auditing and exchange compliance.
- **Tech Stack:** C++, RabbitMQ, FIX Protocol, Boost, MySQL, Winsock, POSIX Sockets.

Credit Card Compare

Developed a recommendation tool to help users find the best credit card based on their needs.

- Tech Stack: Java Spring Boot, MySQL, JavaScript.
- Implemented an **algorithm for ranking credit cards**, optimizing user searches.

EDUCATION

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| • PG-DAC CDAC Noida | 70% 2023 |
| • B.Tech in Information Technology SCRIET Meerut | 73% 2018 |

ADDITIONAL INFORMATION

- Solved **250+ coding problems** on LeetCode, GeeksforGeeks, and HackerRank.
- Regular participant in **coding contests** to improve problem-solving skills.