

# Himanshu Rastogi

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## WORK EXPERIENCE

### C/C++ Developer

Present - Mar 2019

HFTSolution, April 2019

- High Frequency Trading Application: Write high frequency and low latency trading application for Borsa Stock Exchange in C/C++ with libraries like Boost, NanoLog, Pistache, OUCH, Novaspark and SolarTrade on Linux Operating System.
- Optimize High Frequency Trading Application: Optimize trading application to make it send orders in 8 microseconds, lowest latency in Borsa stock exchange on testing Hardware.
- Real Time GUI Application: Write Graphical User Interface application for High Frequency Trading Application in C/C++ with Boost and Qt5 Library to control and observe real time orders. Also send manual order and Start and Stop Strategies from it on Win32 and Linux Operating Systems..
- Cleared Borsa Stock Exchange Certification..
- Integrate FIX Engine: Later integrate FIXEngine library to handle FIX protocol in low latency application.
- Licence Checker: Write script to check project source code and license on Github in Python 3 with request library and github api.
- FXCM Trading Application: Write multi threaded FXCM trading server application which perform BUY/SELL action by tensorflow prediction model and backtrading in Python 3 with libraries like logging, Pandas and Flask for REST API server.
- GUI for FXCM Application: Write GUI Client for FXCM server Application in C/C++ with Qt library on Windows System.
- Auto Login Bot: Write Auto login script on GUI application like trading workstation in Python 3 with pyautogui module.
- Integrate Telegram, Email and Discord Bot in existing application.
- Developed Scraping bot in Python 3 with the help of selenium to scrape reviews for data procession and machine learning model training.
- Automate and fix existing application for Docker Containers.

### Qt/C++ Trainee

Dec 2018 - Mar 2019

Pthinks, Bengaluru

- Build libCurl static Library with all its dependencies like zlib, openssl from scratch in Visual Studio 2013 and integrate to company's existing application in C on Windows System.
- Added existing application dynamic setting feature in C/C++ with Qt library, which reflects according to XML file and visa-versa.
- Wrote and maintained Qt/C++ based custom translation application which bypasses validator of Qt translation file. With auto-export to RCC resource file support and auto translation from Yandex api support.

## TECHNICAL SKILLS

Operating System	GNU/Linux, Unix, Windows, MacOS
Programming Languages	C/C++11/14 (STL, Qt, Boost, Asio, OUCH, FIX), Python (PyQt, selenium, Flask), Shell Script
Server Software	Nginx
Web Technologies	Wordpress
Build System	GNU Make, QMake, CMake
Database	SQLite, MySQL, MSSQL, MongoDB
Other Tools	Qt Creator, Visual Studio Code, Visual Studio, Git, Emacs, Vim, Docker, GDB
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## SIDE PROJECTS

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**qPadNote** *C/C++, Qt, SQLite, Asio*

<https://github.com/xhimanshuz/qPadNote>

A todo list, task tracking and note making Graphical application with auto-saving and multiple tab managing features for Cross-Platform systems.

**qPadNote Cloud Server** *C++, Boost, Asio, MongoDB*

<https://github.com/xhimanshuz/qPadNote-CloudServer/>

Server Application to send, receive and store qPadNote Data on Server over network using Socket Programming with Boost.Asio, So Client can use it from anywhere.

**CurlUD** *C/C++, libCurl, Qt*

<https://github.com/xhimanshuz/curlud>

CurlUD is a C++ based application with Qt library for GUI which helps you to upload and download files to/from server with the help of curl library.

**FlashyPi** *Python 3, Gtk+, JSON*

<https://github.com/xhimanshuz/FlashyPi>

A tool to flash Raspberry Pi OSs on SD Cards and flashdrives. It can either flash the chosen OS or only format the drive for installing bootloaders like Berryboot, NOOBS, PINNS. and also set the partition size according to your requirement.

**ngxManager - Multiple host manager** *Python 3*

<https://github.com/xhimanshuz/ngxManager>

It is Python based script to host Nginx Multiple website on a single system.

**SFML - Distance-between-2-objects** *C++, SFML Library* <https://github.com/xhimanshuz/SFML-Distance-between-2-objects>

Simple program which shows distance between two objects, if they are colliding then object 2 color change randomly. It is written in C++ with SFML Library.

**GEMP** *Python 3, Gtk+, Nginx*

<https://github.com/xhimanshuz/GEMP>

A web server services configuration application developed in python3 with Gtk+. It controls and configure all stack services for you.

## EDUCATION

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**Bachelor of Computer Application ( Computer Science )**

*Chaudhary Charan Singh, Noida*

2015 - 2018