YING ZHOU
Sr Software Engineer
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About
Over 18 year US experience in IT financial industries with strong focus on Java. Real project experience in system and application development on Server platform, including architecture, object-oriented design, coding, testing in Agile/Scrum working Environment; Hands-on experience in trading and financial real-time high volume performance applications, project lead and team player, strong problem solving skills and 24X7 reliability.

Skills
Java, C++/C#, Python, Unix/Linux, Oracle, SQL, node, jQuery, HTML5, CSS, bootstrap, MVC, JavaScript/AJAX, express, MongoDb noSQL, React, Git, Eclipse, XML, JSON, control-M, shell scripts, junit.

Experience
Sr Software Engineer • Cboe Global Markets • 2001 – Present
Cboe is one of the world's largest exchange holding companies, offering cutting-edge trading and investment solutions to investors around the world.

CTMr-Developed and implemented CTMr (CBOE Trade Match) trading system, which is designed by Java full life cycle and running on Linux platform with Oracle database. CTMr is a real time clearing system to report matched trade information to OCC via MQ series. It generates mini pass reports and loads reports to report2Web system. It supports a web base CTMi GUI which is a post-trade application allowed firms query, update, allocation their own trades. By end of day, CTMr provides daily and history data to Data Ware house. Control-M is used to start and stop jobs in schedule.

CMi2 (CAS API version 2)-Worked on the project from phase I to phase II full life cycle planning, design, and implementation. Developed a simulator to self-testing API protocol, provided technical support, business knowledge and patients to explain specification and help trading firms converted to new API. The application had rolled out to production successfully and received positive feedback from trading firms. The simulator tool is widely used by system developers**.**

Vector: A new CBOE trading system. Developed an integration testing tool called Replay simulator. The data is fetched from database followed by a timing sequence and sent back to front end to recreate any possible problems in house. High performance is required to meet production frequency trading system.

(PAR server, SEMS, COPP)

Software Engineer • Open Port Technology • 1999 – 2001
Open port is a dot com small startup high pace company in Chicago

Internet Gateway API is "fax client / voice mail" product foundation library using C++. Its billing system is developed with a class named "billing". The library contains connection class for login, logout, and writing log file to the server. The system used the Cron jobs to maintain database.

Bilingual Language

English and Chinese Mandarin

Education

Master of Computer Science, Loyola University at Chicago, 1999;

Bachelor degree in Electrical Engineering;

Post-graduation classes:

Full Stack Coding Boot camp at **Northwestern University, 2019;**

This is a 24-week intense coding class, which introduces front-end and back-end full stack programing including HTML5, CSS, jQuery, JavaScript/AJAX, bootstrap, node, express, MVC, MongoDb, noSQL, React, and Git.
All in class coding projects are stored in the following link:
https://yzhouyzhou.github.io/Bootstrap-Portfolio/games.html

Data Science with Python programming at **DePaul University, 2018;** Gained grade 'A'.

One project is to analysis QQQ stock market and WTI crude coefficient, sets WTI settlement price as independent and QQQ close price as dependent. It needs to download historical datasets, clean datasets dealing with missing data, split data into train and test portion, use train dataset to fit into a linear regression model and use test dataset to predict. It was programed in python, run on anaconda spider, use numpy and panda library.

Modern .NET C# Web development at **DePaul University, 2018;** Gained grade 'A'.

This is a web development class introduced .Net C#, java scripts, jQuery and some AngularJS. A few of small projects had been done to verify the knowledge I gained and the final project is deployed a web site to Microsoft aZure cloud.