

# YING ZHOU

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## SENIOR SOFTWARE ENGINEER

Over 15 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. Experienced in trading and financial real-time high volume performance applications, project lead and team player. Results driven, strong problem solving and communication skills, and 24X7 reliability.

### Technical Skills

Expert (current use): Java/J2EE, Unix/Linux, Oracle, Git, Eclipse, XML, JSON, junit, control-M.

Prior use: C++, Unix/Linux, Visual C++.

Additional training: Python, C#, MySQL, node, jQuery, HTML5, CSS, bootstrap, MVC, JavaScript/AJAX, express, MongoDB noSQL, React, REST, Git, and JSON.

### Professional Experience

#### **Sr Software Engineer • Cboe Global Markets Chicago IL • 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, the products for trading including options, futures and VIX indexes and ETFs

**CTMr Project**- Developed and implemented CTMr trade match system (a real time clearing system).

- Designed by Java Multi threads full life cycle and running on Linux platform with Oracle database;
- Reports matched trade information to OCC via MQ series;
- Generated mini pass reports and loads reports to report2Web system;
- Supported a web base CTMi GUI for post-trade application allowed firms query, update, allocation their own trades;
- By end of day, provided the daily history data to Data Ware house;
- Control-M is to schedule system to start, stop, initialize, and cleanup jobs 24\*5 daily.

**CMi2 Project** (CAS API version 2) - Allowed billions of daily transactions get into Cboe trading system.

- Worked on the project from phase I to phase II full life cycle planning, design, and implementation;
- Developed simulator to self-testing API protocol;
- Provided technical support, business knowledge and patients to explain specification and assisted trading firms convert 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 to recreate problems and find fix solutions in house.

**Vector Project** (CBOE trading system).

- Developed integration testing tool (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, provided solution fixes in timing manner.
- High performance is required to meet production frequency trading system.

**(PAR server, SEMS, COPP)**

## **Software Engineer • Open Port Technology Chicago IL • 1999 – 2001**

Open port technology is a dot com startup high pace company

**Voice over IP Project-** 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.

## **Education**

**Master of Computer Science**, Loyola University at Chicago, IL;

**Bachelor degree** in Electrical Engineering, Beijing, China.

**Additional Training** classes:

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

This is a 24-week intense coding class, which introduces front-end and back-end full stack programming including HTML5, CSS, jQuery, JavaScript/AJAX, bootstrap, node, express, MVC, MongoDB, noSQL, React, ES6 and Git.

All in class coding projects are stored in the following link:

<https://yzhou-portfolio-live1.herokuapp.com/games>

**Data Science with Python programming** at DePaul University, Chicago IL, 2019; 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, Chicago IL, 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.

## **Language**

**Chinese**

**English**