

# Zachary (Zebo) Xiong

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## EDUCATION

**M.S. in Computer Science**, Texas State University (with Scholarship)

GPA

3.75

GRADUATION

Dec 2020

- Courses: Algorithm, Operating System, Machine Learning, Data Mining
- Research: Dynamic Invariant Detection, Social Network Privacy

**M.S. in Electrical Engineering**, The University of Hong Kong

Nov 2011

## INDUSTRY EXPERIENCE

**Software Engineer (Banking)**

Feb. 2016 – Aug. 2018

*Robert Half Technology - Hong Kong*

- Developed *Common Reporting Standard* ("the CRS") system using **JAXB** which influenced at least 200 thousands oversea bank accounts; Complied *Foreign Account Tax Compliance Act* using **Java, MongoDB, Kafka and Docker** for internal forex brokers which were used by trader for daily basis.
- Built a credit risk alert web system with **BI tools (Tableau and Pentaho)** according to *Hong Kong Anti-Money Laundering Regulations*; Visualized customers' data (investment, pension, insurance, etc. ) using **ASPOSE and iText**, and incorporated them to financial statements which impacted 500,000 customers in Hong Kong.
- Developed an internal fixed-deposit web portal using **Java CUBA framework** which was employed by Operation Department; Developed more than 50 interactive web pages/websites using **JSTL (to display data table in JSP), AJAX/AJAJ (to relief pages traffic load), jQuery (data verification), Django**, etc.
- Led a regional data migration project (from **DB2 on IBM AS/400** to **Oracle 11g on Linux**);

**Software Engineer**

Dec. 2014 – Oct. 2015

*CAUDALIE HK Retail Ltd - Hong Kong*

- Consolidated back-end functions on mobile apps (**Android & iOS**) with **RESTful API** using **Spring and Hibernate** (data privacy protections, etc); The mobile apps has more than 500,000 users worldwide;
- Upgraded e-Commerce website via **Magento**; complied with local logistics using **Easiware and Dynamics Nav**;
- Setup Ethernet/WiFi/Audio/IP Telephone for new office;  
(Cat5e, Cisco 24 Port Gigabit Switch, Linksys 4-port switch 802.11a/b/g/n/ac)

**Data Analyst**

May. 2013 – Jun. 2014

*Belos Capital (Asia) Ltd - Hong Kong*

- Developed an asset management web system using **Vaadin** and **SQL Server**; deployed through **WebSphere** in Linux on IBM servers; Every individual staff use this web system to operate daily business.
- Performed data mining (associate rules, topic modelling) on credit risk data from *TransUnion*; Utilized machine learning techniques to learn the user payment behaviors; Supported management decision making using the analysis results.
- Extracted, Transformed and Loaded ("the **ETL**") credit data from SQL-Server; Produced financial reports via **SSRS, SSIS and Visual Studio** (after data massage, reorganizing and stratification)

**Web Analyst Programmer**

Feb. 2012 – Feb. 2013

*Dow Jones & Company, Inc., Hong Kong*

- Integrated real-time commercial news delivery app with external voice system by developing **C++ API**; It impacted thousands of global investment bankers.
- Developed *Wall Street Journal* subscription page using **HTML/CSS/jQuery/MySQL/PHP**; integrated payment gateway and subscription data validation rules which influenced millions of customers.

## PROJECTS IN USA

**Distributed Computing applications**, Texas State University, USA

2020 Summer

- Utilized **Java RMI (UnicastRemoteObject** and JavaBeans) to periodically update the weather forecast data with [www.weather.gov](http://www.weather.gov); **Marshallled and unmarshallled** data between server and client; Visualized the forecast data using **JList** and **ListCellRenderer** with different weather icons;
- Incorporated **gRPC** with **Django** to synchronize local server (real time stock price provider) with *Nasdaq* Historical Data API (updated 0.1 seconds), and allowed more clients to access the server simultaneously (compared with RESTful);

**Deep learning applications**, Texas A&M University, USA

Sept 2019 - Dec 2019

- Utilized **LSTM** to predict financial time series data (NASDAQ) with minutes, hourly and daily data;
- Tested with TensorFlow Object Counting API to analysis traffic videos using **OpenCV** and **Google Vision API**;

**Social medial privacy**, Texas A&M University System, Prairie View, TX

Sep 2018 – Dec 2018

- Developed a social medial platform with Django to give face recognition on the images uploaded by users;
- Incorporated with OpenCV and Google Cloud Vision and Python face recognition package;
- Deployed to AWS using **Amazon Elastic Compute Cloud** (Amazon EC2);