

JIAWEI LYU

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EDUCATION

Northwestern University, Evanston, Illinois 2019 – Present

M.S. in Computer Science, GPA: 3.9

Shanghai Jiao Tong University, Shanghai, China 2015 – 2019

B.E. in Software Engineering, GPA: 3.7

TECHNICAL STRENGTHS

- **Programming languages:** Java, JavaScript, Python
- **Web Development:** Vue.js, HTML, CSS
- **Framework & Tools:** Spring, MySQL, MongoDB, Kafka, AWS

WORK EXPERIENCE

Amazon Web Service Cupertino, California 06/2020 – 09/2020

SDE Intern, Network Monitoring and Control Team

- Designed and developed a canary testing for **StrongBow** - AWS's BGP prefix hijack detector, that customizes and crafts BGP update files with various monitored prefixes and variable load.
- The canary simulates prefix hijack events and triggers StrongBow to see how it will behave under different circumstances so that it helps measure the accuracy and availability of StrongBow.
- The canary is built with **AWS Lambda** and deployed to production environment.

DiningCity | Shanghai Shanghai, China 11/2018 – 02/2019

Frontend Developer

- Translated design team's UX wireframes and mockups into responsive, interactive features, using **HTML**, **CSS** and **JavaScript**
- Created generic Map component with **CoffeeScript** including Google Map and Bing Map
- Implemented some new features such as auto-suggestion, user profile, results filtering etc.
- Migrated legacy company website from rails to **Vue.js**, **Sass**, **HTML5**

Morgan Stanley Shanghai, China 07/2018 – 10/2018

Technology Summer Analyst, E-Trading Infrastructure Group

- Developed the driver of Zookeeper, Kafka cluster test environment on the basis of Morgan's test platform **Testplan**, and uploaded it to Morgan's codebase
- Changed the DataServer, which was for daily transaction data information transmission, from TCP to **Kafka**, and implemented a working demo prototype for performance testing to verify the the feasibility of the new approach

PROJECTS

Overall Design of Distributed Commodity Exchange System 03/2018 – 06/2018

full stack developer Group Project, cooperated with Morgan Stanley

- Designed the overall architecture of system and implemented the trader side with **Spring Boot**
- Developed several methods for data transmission using various protocols like **WebSocket**, **FIX**
- Implemented specific data structure based on heap to maintain order book of different order types