

JERRY ZHAO

(+1)470-985-4753 ◇ cuyuanzhao@gmail.com
2400 4th Ave, Seattle, WA, 98121

WORK EXPERIENCE

- Software Development Engineer** - Amazon.com, Seattle May 2017 - Present
Design, implement, test and maintain scalable applications for supporting products management in more than 100 Amazon physical retail stores. Major achievements:
- Developed an AWS Lambda service that enabled modularity in product management, which scaled span of control from 5 stores per manager to 30 stores and hence saved \$20k contract cost pre store per year.
 - Led a team of 4 to develop an EC2 service to analyze the product configurations by monitoring database change, which reduced around 60% incorrect product configurations per store.
 - Leading the tech design for the next generation of product management system that is expected to scale to more store and more business types. This project is scoped to require 4 dev years.
- Software Engineer Intern** - AdeptDC.com, Atlanta May 2016 - Aug 2016
- Built the RESTful Web service on AWS using Jersey framework and Apache Tomcat, which can handle http request and connect to MySQL database.
 - Developed the front end for displaying and monitoring Georgia Tech Data Center in graphical format by JavaScript, html5, and CSS3.
- Graduate Teacher Assistant** - Georgia Tech, Atlanta May 2016 - Dec 2016
- Assisted the instruction for course CS6505 *Computability and Algorithms* and CS4641 *Machine Learning*.
 - Collaborated with faculty to develop programs for running students' algorithm and evaluating the performance.
 - Held office hours regularly to tutor students and graded students' assignments and examinations.

OTHER EXPERIENCE

- Algorithm Stock-Trading System in Robinhood** Sep 2018 - Present
- Designed the stock-trading algorithm and implemented it in Python by utilize Robinhood private APIs.
 - Achieved the dynamic visualization for the trading process, including buy/sell points, profits and other statistics.
- Full Stack development for MySQL Database Application** May 2016 - Jul 2016
- Designed the EER diagram, information flow and relational schema diagram for the MySQL database.
 - Developed a database application, GTMovie, with a movie tickets ordering function in Java by JDBC API.
- Recommendation system design and its web application** Jan 2016 - Mar 2016
- Built a predictive model using machine learning algorithms and achieved 90% accuracy in cross validation when applied to Yelp Challenge Dataset.
 - Developed a simple web application for the restaurant recommendation system.

EDUCATION

- Georgia Institute of Technology** - Atlanta, GA Aug 2015 - May 2017
Master Degree in Computational Science and Engineering GPA: 3.5/4.0
- Michigan State University** - East Lansing, MI Jan 2014 - May 2014
Exchange student in Statistics and Mathematics GPA: 3.8/4.0
- Xi'an Jiaotong University** - Xi'an, China Sep 2011 - Jul 2015
Bachelor Degree in Applied Mathematics GPA: 3.8/4.0, Top: 5%

SKILLS

Language: Java, C++, Python, JavaScript, Ruby, R, SQL, HTML5/CSS3, Latex
Framework: Spring, Angular, JUnit, Webpack, Bower, Bootstrap, Jasmine, MapReduce
Database: DynamoDB, RedShift, S3, MySQL, SQLite
AWS: Lambda, CloudFormation, CloudFront, Route53, CloudWatch, API Gateway, DynamoDB, S3, Redshift