Yanjie He

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Portfolio of Projects: https://yanjiehe.github.io/

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Address: 1255 New Hampshire Ave NW, Washington DC 20036, USA

EDUCATION

• The George Washington University

Washington D.C., USA

Github: https://github.com/YanjieHe

Master of Science in Data Analytics (Computer Science track); GPA: 3.80/4.00

Anticipated May. 2020

o Courses: Design & Analysis of Algorithms, Database System II, Information Retrieval System

• Shanghai University of International Business and Economics
Bachelor of Arts in Economics; GPA: 3.71/4.00

Shanghai, China

Sept. 2013 - June. 2017

RELEVANT SKILLS

• Coding: C, C++, C#, Java, Scala, Python, R, SQL, HTML/CSS, JavaScript, Scheme/Racket

• Front-end: React.js, D3.js, Bootstrap, Semantic UI

• Back-end: Spring, MyBatis, Hibernate, MySQL, Linux, JUnit, Play, PostgreSQL, Elasticsearch

• Tools & Technologies: RESTful API, AWS, Spark, Machine Learning, Shell scripts

EXPERIENCE

• Machine Learning Researcher

George Washington University

Washington D.C. Metro Area, USA

Oct. 2018 - Anticipated Apr. 2019

o Project Title: Artificial Intelligence and User Behavior for Robust Near Real-Time Recommendations

o Position: Group research collaborator for Dr. Benjamin Harvey, faculty of George Washington University

• Recommender System: Developing a graph-based recommender system, providing real-time query service and utilizing collected user behaviors data.

- Back-end Development: Developing the back-end with Spring. Using Github for collaborative development and version control. Utilizing RESTful API to provide interoperability between front-end and back-end. Operating MySQL database to organize the data.
- AWS: Deploying Spring on AWS EC2, and MySQL on AWS RDS.
- Information Retrieval System: Developing a web scraper with Python to collect data. Applying methods in natural language processing to retrieve information from user activities in the browser.

• Computational Social Scientist

Washington D.C. Metro Area, USA

Sept. 2018 - Anticipated Apr. 2019

George Washington University

- Social Network Analysis & Data Analysis: Working for Professor Vontrese Pamphile's social science research project at George Washington University. Applying mathematical and statistical techniques to novel data.
- Analytical Programming: Reviewing academic papers. Using Python, R and Scala to clean datasets and run the models. Utilizing packages including NetworkX and igraph.

• Data Engineer Intern

Shanghai, China

Kantar Media CIC

July. 2016 - Feb. 2017

- Data Visualization: Developed Data Visualization Solution in C# for GroupM television show.
- Text Mining System: Developed a text mining system in C# with team members. The system was used by more than 50 data analysts in the company. Saved more than 10,000 dollars of outsourcing cost.
- Sentiment Analysis: Improved the accuracy of sentiment analysis by 17% compared to the previous solution.

Selected Projects: https://yanjiehe.github.io/

- A Compiler and a Virtual Machine: Developed a compiler for a statically typed language, a bytecode disassembler, and a virtual machine in C++.
- An Online Retail Platform: Developing a website where customers can browse and purchase products, and a management system for merchants to manage.
 - Front-end: Building an UI with React.js, which communicates with the back-end service using RESTful API.
 - Back-end: Designing the data model. Developing a back-end with Spring and Hibernate, providing RESTful API.
 - User Management: Customers and merchants can register and login in two separate systems. And they can choose to keep logged in for a week.
 - Shopping Cart & Ordering: Users can put their selections into the shopping cart and place orders. The merchants can process the requests with the management system.