

Yanjie He

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

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EDUCATION

- The George Washington University** Washington D.C., USA
Master of Science in Data Analytics (Computer Science track); GPA: 3.80/4.00
Anticipated May. 2020
- Shanghai University of International Business and Economics** Shanghai, China
Bachelor of Arts in Economics; GPA: 3.71/4.00
Sept. 2013 – June. 2017

SKILLS

- Coding:** C, C++, C#, Java, Scala, Python, R, SQL, Scheme/Racket, HTML/CSS, JavaScript
- Web Development:** React.js, D3.js, Spring Boot, MyBatis, RESTful API
- Modeling Skills:** Machine Learning, Statistics, Social Network Analysis, NLP
- Databases:** MySQL, SQL Server, SQLite3
- Frameworks & Libraries:** Qt5, Apache Spark, JUnit, Eigen, OpenCV
- Toos & Technologies:** Compiler Design, Recommender System, Linux, Git, AWS, Web Scraping

EXPERIENCE

- Machine Learning Researcher** Washington D.C. Metro Area, USA
George Washington University
Oct. 2018 - Anticipated Apr. 2019
 - Project Title:** Artificial Intelligence and User Behavior for Robust Near Real-Time Recommendations
 - 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 Boot. 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
George Washington University
Sept. 2018 - Anticipated Apr. 2019
 - Social Network Analysis and 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.
 - Reporting:** Writing and submitting data analysis report bi-weekly.
- Data Engineer Intern** Shanghai, China
Kantar Media CIC
July. 2016 - Feb. 2017
 - Data Collection:** Collected online comments with team members utilizing Python, and provided data cleaning solution with C# and SQL Server for Chanel APAC project.
 - Data Visualization:** Developed Data Visualization Solution in C# for GroupM television show, to plot Venn Graph according to given data automatically.
 - 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 to make data analysis solution for L'Oréal, Chanel, Volkswagen, and Dell. Saved more than 10,000 dollars of outsourcing cost. The system was processing millions of text data records every month.
 - Sentiment Analysis:** Improved the accuracy of sentiment analysis by 17% compared to the previous solution.

SELECTED PROJECTS

For more details about my projects, please click the link <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++.
- A Content-based Movie Recommender System:** Developed a content-based movie recommender system in C++ and Python. Extracted image and audio features from movie trailers, and utilized the network relationship between movies.
- Text Co-occurrence Network Analysis for The Hunger Games:** Implemented text co-occurrence network to visualize the relationship between the main characters in the novel *The Hunger Games* with Python.