

# LINGMEI ZHAO

Phone: (202)733-8369 | Email: [zhaolingmei0@outlook.com](mailto:zhaolingmei0@outlook.com) | LinkedIn: [www.linkedin.com/in/lingmeizhao/](http://www.linkedin.com/in/lingmeizhao/)

## Education

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**The George Washington University** Expected May 2020  
Master of Science in Statistics, GPA: 3.83/4.00 Washington, DC, USA  
**Highlighted Coursework:** Advanced Software Paradigm, Design & Analysis of Algorithms, Statistical Data Mining, Machine Learning II, Advanced Time Series

**Shanghai University of International Business and Economics** Sept 2013 - July 2017  
Bachelor of Arts in Assets Appraisal, GPA: 3.86/4.00 Shanghai, China

## Technical Skills

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<b>Coding</b>	SQL, R, Python, Bash, Java, C++, HTML
<b>Big Data</b>	Spark, Hadoop, Pig, Hive, HBase, R Shiny, Tableau, Tensorflow, Keras
<b>Software Development</b>	Flask, Linux, RESTful API, Docker, MySQL
<b>AWS</b>	EC2, RDS, S3, CloudWatch

## Experience

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**Perthera** May 2019 - Aug 2019  
*Software Developer Intern* <https://perthera.com/> McLean, VA

- **Web Services:** Developed 5 websites using Java Vaddin with team members; Used JDBC to retrieve information from the database. Managed and maintained 30 code repositories, added 25 features to the existing functionality of the internal systems.
- **Data Pipelines:** Designed and developed complex data pipelines to retrieve data from XML documents of a medical research lab.
- **Business Intelligence:** Implemented 3 report generators providing RESTful API, which can create reports automatically and send them via fax and email. Increased the productivity of the sales teams and customer service team, and helped managers to make better decisions.
- **Database:** Managed more than 4,000 patients' data on MySQL database, and designed the relational tables.
- **AWS:** Deployed the web services on AWS EC2, database on RDS, and static files on S3. Debugged the systems using CloudWatch to check the logs. Maintained Linux instances on EC2.
- **Project Management:** Used Git for version control. Experienced scrum agile development life cycle in a team environment.

**CCNOAI** Oct 2018 - Apr 2019  
*Data Engineer Intern* <https://ccnoai.com/> Washington, DC

- **ETL:** Built custom Python/Bash scripts to automate the daily updating of new records and table indexes in MySQL.
- **Database:** Executed detailed MySQL data analysis (identifying erroneous data, monitoring user activity) on daily feed of text posts.
- **MapReduce:** Leveraged Hadoop (Hive SQL) to spot the most prominent words in the user posts and comments.
- **Dashboard:** Developed an interactive data dashboard web app for data visualization using R Shiny.
- **NLP:** Engineered LSTM model to better evaluate users' sentiment expressed in comments.

**George Washington University** Sep 2019 - Expected May 2020  
*Teaching Assistant (R Programming, ETL, Data Visualization)* Washington, DC

- **Exploratory Data Analysis, 2020 Spring (21 Students):** Teaching students how to build ETL processes and explore data using R. Guiding students with their data visualization projects during office hours twice a week.
- **Programming for Analytics, 2019 Fall (23 Students):** Taught students to analyze and visualize data using R (tidyverse, ggplot2, R Markdown). Guided students on difficult topics during office hours twice a week and improved their scores by 11%.