Lei Xian

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EDUCATION

University of Georgia *Athens, GA*
Master of Science in **COMPUTER SCIENCE**, **Expected Dec. 2019** Jan. 2018 - Present
Master of Science in **Applied Economics, Expected Dec. 2019** Aug.2017 – Present
Beijing Forestry University *Beijing, China*
Bachelor in **E-COMMERCE** Sep. 2013 – Jun. 2017

SKILLS

Languages	Python, Java, SQL, JavaScript, HTML
Operating Systems	Ubuntu, Windows, macOS
Frameworks & Tools	Docker, GitHub, MongoDB, Apache-Maven, Jira, Eclipse, PyTorch, Keras

AWARD

Grace Hopper Celebration (GHC) Scholar 2019 Oct. 2019

WORK EXPERIENCE

Backend Software Engineer Intern, Stratifyd Inc. May 2019 – Aug. 2019

- Worked with Backend team in a docker and agile environment, individually designed and implemented a data connector as a product for the platform to collect conversation data.
- Participated in adding CICD pipeline into all of the repositories, wrote the unit tests and integration tests for continuous deployment.
- Engaged in designing microservice system for the platform and decoupled file parsing pipeline functions.
- Debugged for the platform and solved a concurrency issue by adding locks to the database when someone is writing, wrote a multi-process test for this new implementation.
- Implemented OAuth for authorization of the third party (PowerBI) for using customer information from the company platform.
- Added the Bugsnag for several repositories to monitor the stability of the platform.

Graduate Research Assistant, Applied Economics Dept, UGA Aug. 2017 – Present

- Web scraping from various website, data aggregation and data visualization by matplotlib.
- Investigated the Georgia agricultural policy's impact on Vidalia onion price using regression and two stage least squares statistics models.

SELECTED PROJECTS

Persistent and Asynchronous Chat Room System May 2019

- Created a multicast group for sending and receiving messages through a coordinator, allowed storing of messages for a fixed time if a participant isn't online. (Java)

Mental Health Classification May 2019

- Implemented CNN, bidirectional RNN and an attention based neural network to classify 4-class mental health issue using data collected from Reddit. (Deep learning, Python, Pytorch)

Consistent Hashing-bashed Naming Service Apr. 2019

- Developed multithreaded socket programs for the lookup service on a distributed set of servers.(Java)

Natural Language Processing Oct. 2018

- Calculated TF-IDF and implemented Random Forests and Naive Bayes in Google Cloud Platform to classify 9 classes of malware using 0.5TB data. (Python, GCP, Spark)

Movie Recommendation System Apr. 2018

- Created a Movie Recommendation System in Java and connected with MySQL database, tested by IMDB dataset. (Java, MySQL)