Lina Qiu

EDUCATION

Boston University, Graduate School of Arts and Sciences, Boston, MA	2019 - Now
Doctor of Philosophy, Computer Science	
New York University, Tandon School of Engineering, New York, NY	2017 - 2019
Master of Science, Computer Science	
The University of Edinburgh, School of Informatics, Edinburgh, UK	2015 - 2017
Bachelor of Engineering with Honors, Computer Science and Electronics	
South China University of Technology, School of Electrical and Information Engineering,	
Guangzhou, China	2013 - 2015
Bachelor of Engineering, Information Engineering	

TECHNICAL SKILLS

Programming/Scripting Languages: (Proficient)Java, Python; (Familiar)C++, Scala, SQL, MATLAB
Frameworks and tools: Git, Maven, Node.js, MapReduce, Apache Spark, Ignite, Hadoop, Lucene

RESEARCH EXPERIENCE

Master Thesis "Scalable Publish Subscribe Systems",

Supervised by Prof. Torsten Suel

- Integrated several remarkable Reverse Search algorithms into Luwak, compared their performance
- Studied the trade-off between the extent of indexing (partial or exhaustive) and search performance

Graduate Research Project "IPTV Channel Switch Recommendation with Attention Mechanism",

Supervised by Prof. Yong Liu

- Proposed an attention mechanism based neural network model to further improve the recommendation accuracy
- Pushed the hit ratio to 45% with only three candidate channels, compared to 40% in the previous work
- Submitted to IEEE Transactions on Multimedia, currently under review

Undergraduate Honors Project "Privacy Principles to Privacy Settings"

Supervised by Prof. Stuart Anderson

- Identified potential privacy violations on Facebook and visualized them
- Developed a web app prototype that allows users to articulate their privacy principles
- The web app can interactively measure the extent to which users' privacy principles can be fulfilled on Facebook

ACADEMIC EXPERIENCE (PART OF)

Big Data (Apache Spark, Python)

- Built a scalable data cleaning library with functions like outlier detection, deduplication and basic integrity constraints correction (https://github.com/LinaQiu0/SparkClean)

Distributed Systems (Java)

- Implemented a distributed system using the Apache Ignite framework to get the top ten most popular Wikipedia pages of a day

Computer Vision (C++)

- Implemented vanishing point detection and road segmentation on pictures and videos based on Gabor Filter (https://github.com/LinaQiu0/CV-GaborFilter)

Information Systems Security (Python)
- Built a reference monitor to secure file operations using the security layer functionality of Repy
- Tried to circumvent the reference monitors built by classmates

WORK EXPERIENCE

Teaching Fellow for CS111, BU   Fall 2019

Research Assistant, ECE Department, NYU   Sept. 2017-May 2019

Web Developer Intern, ZTE Corporation, Shenzhen, China   May 2015-July 2015