Liuzixuan (Peter) Lin

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EDUCATION

Peking University, Beijing, China 09/2015 - 07/2019

Bachelor of Science in Computer Science and Technology | GPA: 3.63/4.00 | Top 20%
Highlighted Courses: Software Engineering (95.5), Operating Systems (92.5), Computer Architectures (91)

Double Major in Economics | GPA: 3.72/4.00
Highlighted Courses: Money and Banking (96), Intermediate Macroeconomics (92), Econometrics (88)

SELECTED AWARDS

Yang Fuqing & Wang Yangyuan Academician Scholarship, Peking University 11/2018
Merit Student, Peking University 11/2018
Honorable Mention, The Mathematical Contest in Modeling 2018 03/2018
Third Prize in Peking University Programming Competition 2017 05/2017

PUBLICATIONS

Yanchun Sun, Jiu Wen, Yu Liu, **Liuzixuan Lin** and Lechong Zhang. Inferring urban regions' functions based on social media text analysis. The Web Conference 2019 (WWW 2019). Submitted.

RESEARCH EXPERIENCE

Inferring Urban Regions' Functions Based on Social Media Text Analysis (2018.2-2018.11)
Advisor: Yanchun Sun (Associate Professor, Peking University)

- Extracted information from microblogs to infer the topics in a region (e.g., food, travel) with NLP methods.
- Integrated sentiment information to the extracted topics through text classification with LSTM.
- Participated in a related case study of Beijing and the result analysis.

Extracting Referenced Datasets from Social Science Papers (2018.7-2018.9)
Advisor: Ian Foster / Kyle Chard (Professor / Fellow, the University of Chicago)

- Summarized the development of named entity recognition (NER) methods.
- Accelerated data preprocessing by a Python program, which reduced manual labeling and improved the accuracy.
- Designed and implemented a model based on bidirectional LSTM with CNN and CRF layers, which reads the raw text of social science papers and outputs dataset candidates with the sentences that include them.

SELECTED COURSE PROJECTS

Labs on Computer Organization and Architecture

- Built a benchmark to test the comprehensive performance of a computer.
- Independently completed 10K lines of code on projects including a RISC-V simulator, a cache simulator and an image processing program with SIMD instruction sets.

Nachos practice in Operating Systems

- Examined the basic implementation of Nachos and researched on a comparison of Nachos and Linux.
- Implemented all 8 parts of Nachos (including 2 optional ones), which made up an operating system.

Mobile Application Development in Software Engineering and relevant practice course

- Applied methodology of Software Engineering to the project, from demand analysis to software testing.
- As the group leader, coordinated the work of front end and back end in addition to my own development work.
- Developed an Android application about identifying events on campus and another application about sharing comments on cafeterias.

SKILLS

Programming skills: C/C++, Python, Java for Android, x86 Assembly, parallel methods (OpenMP, OpenCL, MPI)
Standard English Tests: TOEFL: Total 107 (Reading 29 Listening 27 Speaking 22 Writing 29)
GRE: Verbal 155 Quantitive 170 Analytical Writing 3.5

EXTRACURRICULAR ACTIVITIES

Member of the Debate Team, School of EECS 09/2015-Present
Organizing activities for fresh students in the School of EECS 09/2016-06/2018
Volunteer of Peking University's anniversary and sports meeting 04/2016-05/2016