CHONGFENG LING

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Education

Xi'an Jiaotong-Liverpool University   Sept. 2017 – June 2022
Bachelor of Science in Applied Mathematics, First Class Honours (Expected)   *Jiangsu, China*

The University of Liverpool   2022
Bachelor of Science (honors) in Applied Mathematics, First Class Honours (Expected)   *Liverpool, UK*

Relevant Coursework

- Numerical Analysis
- Probability & Statistics
- Optimization Theory
- Differential Equations
- Operation Research
- Abstract Algebra
- Java Programming
- Population Dynamics

Research Experience

A hybrid-approach solver in university timetable scheduling   Sept. 2021 – June 2022
Final Year Project
- Waiting to update.

Queuing System Simulation   Apr. 2020 – May 2020
Research Associate   *Jiangsu, China*
- Conducted visits and research on the operating conditions and modelled passenger flow of a school restaurant.
- Simulated queuing model based on Monte Carlo Method and visualized computing result on Matlab.

Indoor Localization Based on Wi-Fi Fingerprinting and CNN   Jun. 2018 – Aug. 2018
Research Assistant   *Jiangsu, China*
- Presented a new location fingerprinting database comprised of Wi-Fi received signal strength (RSS) and geomagnetic field intensity measured with multiple devices at a multi-floor building.
- Mapped RSS data for a reference point to an image-like, two-dimensional array and provided preliminary results of localization based on Convolutional Neural Network.
- Used a modified random way point model to efficiently generate continuous step traces imitating human walking.

Internship and Project

Mathartsys, Inc   Feb. 2021 – Aug. 2021
Algorithm Research (NLP) Intern   *Shanghai, China*
- Maintained SQL and Shell script to pull daily data automatically and canonically.
- Explored ways to visualize and send a daily report of test results to team members using Jupyter, Pandas and Excel.
- Modified, segmented and augmented voice transcription text based on Regular Expression and word embedding
- Built a multitasking NLP system with BERT and provided support for the company's downstream business including forum public opinion analysis (Sentiment Classification) and sales voice quality (Named Entity Recognition). The project has provided services to many customers.

Awesome-XJTLU   Apr. 2021 – Now
Contributor
- Created a open-source knowledge sharing platform on Github Page for undergraduates, including course notes, internship consultation, and graduate programs.
- Collaborated with team members using version control systems such as Git to organize modifications tasks.

Technical Skills

Languages: Python, Matlab, Java, LaTex, Git, SQL
Technologies/Frameworks: PyTorch, Linux, GitHub

Leadership / Extracurricular

XJTLU-Enactus   Sept. 2017 – Apr. 2019
Publicity Director, Project Manager
- Initiated and organized bad-looking fruits orientations near the campus and market; guided groups of more than 30 students and educated them about fruit supply chain and value of unsightly food.
- Supervised the daily operation of the project including event hosting and public relation.