RUOYAO YANG

yangruoyao@wustl.edu | (+1)314-583-6605

EDUCATION

Washington University in Saint Louis   **St. Louis, MO**
- Master of Science in Computer Science   May 2021
- GPA: 4.00/4.00; Honor: McKelvey School of Engineering Master's Pathway Scholarship

Beijing Language and Culture University   **Beijing, China**
- Bachelor of Arts in Translation and Localization, Bachelor of Economics in Finance (minor)   Jun 2019
- GPA: 3.85 / 4.00; Grade Ranking: 1st; Honor: First-class Scholarship

PUBLICATIONS

- **Ruoyao Yang**, Wanying Xie, Chunhua Liu, Dong Yu. "BLCU NLP at SemEval-2019 Task 7: An Inference Chain-based GPT Model for Rumour Evaluation." SemEval (2019).   2019

INTERNSHIP EXPERIENCE

Amazon.com, Inc.   **Seattle, WA**
SDE Intern   May – Aug 2020
- Modified API calls in Java to automate the integration between 2 services, facilitated cross-team collaboration
- Saved time, resources and manual onboarding efforts involved in 40% experiments in the Personalization department

Washington University in Saint Louis   **St. Louis, MO**
Teaching Assistant (courses: Data Structures & Algorithms, Introduction to Machine Learning)   Jan – May 2020

Beijing Fanyu Technology Co., Ltd.   **Beijing, China**
NLP Intern   Mar – Jun 2019
- Researched and experimented with Quality Estimation approaches for Chinese-English machine translation on Boeing Electronic Logbook to improve machine translation results
- Organized data annotation, pre-trained and fine-tuned Quality Estimation task on NLP deep learning models in Python and Tensorflow, conducted error analysis and applied word alignment & rule filter techniques

Beijing Lingosail Technology Co., Ltd.   **Beijing, China**
SDE Intern   Aug 2017 – Feb 2018
- Developed PHP multilingual term website, MySQL database, C# desktop app for 2022 Olympic Winter Games
- Searched within the XML Chinese Wikipedia database with Python to extract all possible Winter Olympic terms; >70% extracted words proved to be formal terms

ACADEMIC EXPERIENCE

Washington University in Saint Louis   **St. Louis, MO**
"Pawsgram" Web App Development   Nov – Dec 2020
- Developed a pet event tracking and sharing social webapp with React & Express/NodeJS & MongoDB, allowing users to keep track of photos, records, memorable events of their pets in a timeline perspective, and explore public events from the community

"SuperMario" 2D Game Development   Sep – Dec 2020
- Developed a 2D game similar to Super-Mario with Unity. Core loop: Input: keyboard keys; Action: player move, shoot rocks, avoid or kill enemies, interact with items; Obstacle: enemies; Goal: player finish three levels within health points limit

Project in "Visualization for Explainable Planning"   May 2020 – Nov 2020
- Implemented an interactive web tool in Jquery & Python Flask, to visualize robot plans generated by plan generator, allowed plan-editing by users and visualized explanations; generalized across domains and across plans

"MyRecipe" Android Mobile App Development   Mar – May 2020
- In consideration of grocery acquisition inconvenience and people's great need in cooking and keeping healthy during quarantine time, developed an Android mobile app that allowed users to search recipes with ingredients at hand, customize personal meal plans and receive personal intake suggestions

Beijing Language and Culture University   **Beijing, China**
Research on Rumor Stance and Veracity Classification   Sep 2018 – Jan 2019
- Designed and implemented a system with NLP deep learning models in Python and Tensorflow; Compared experimental results with SOTA baseline models; Performed experiments on NLP data and model manipulation techniques
- Ranked 1st/21 in subtask A, and 4th/12 in subtask B for SemEval 2019 Task 7

Natural Language Processing Workshop   Apr 2018 – Jun 2019
- Organized NLP topic introduction, code sharing, paper presentation workshops with CS graduates

SKILLS

- Programming languages: Python, Java, Kotlin, HTML & CSS & Javascript, PHP, Matlab, C, C++, C#
- Mobile app development (Android), 2D Game development, Website development, Machine learning, Deep learning