Jing YU

EDUCATION

The Hong Kong Polytechnic University (PolyU) Hong Kong SAR

BSc(Hons) in Computing (GPA: 3.66/4.0) *Sep. 2016 - May 2020*
Minor in Applied Mathematics *Jan. 2018 - May 2020*

HONORS AND AWARDS

Dean's Honours List (Faculty of Engineering) *2018/19, 2016/17*
HKSAR Government Scholarship Fund – Reaching Out Award *2018/19*
CMA & Donors Scholarship (Only 2 in the department, 2/400) *2017/18*
PolyU Computing Solved It! Inception 2017: Grand Award, Best Theme Award *Mar. 2017*

PUBLICATIONS

1. Jin XUE, Geoffrey Qiping SHEN, Yiming LI, Jiashuo WANG, **Jing YU**, and Yutong YANG. Dynamic analysis on public concerns in Hong Kong-Zhuhai-Macao Bridge: A topic modeling approach. *CRC 2020* (Accepted).
2. Jin XUE, Geoffrey Qiping SHEN, Yiming LI, Jiashuo WANG, **Jing YU**, Yutong YANG, and Yifei FAN. An integrated topic model on stakeholder management in mega projects: a case of Hong Kong-Zhuhai-Macao Bridge. *ICCEPM 2019* (Accepted).

INTERNSHIP

Shenzhen Rylink Science and Technology Co., Ltd, Shenzhen *June - Aug. 2018*
Position: Back-end Development Intern (Python, Django)

- Developed part of the admin site of the software application product *Hoo Wallet*, a digital assets trading platform, supporting both Android and iOS on a team basis
- Created an attendance checking website for the company's personnel with another colleague
- Got familiar with the server-side development procedures and cultivated my creative problem-solving, teamwork and multitasking skills

PROJECTS

Face Images Generation by Generative Adversarial Networks (Python, Tensorflow)
Position: Research Assistant for Prof. Ping Shum (NTU) *June - July 2019*

- Implemented a GAN model with a style-based generator in order to generate high-resolution images of human faces
- Developed a puzzle game application based on the generated images and tested the application in both Windows and Android systems
- Repository: *https://github.com/YukiYJ/DecodeFace*

An Integrated Topic Model on Stakeholder Management in Mega Projects (Python)
Position: Student Assistant for Prof. Qiping Shen (PolyU) *Apr. - May 2019*

- Implemented part of a Topic Over Time model for the detection of major issues, including: 1) preprocessed text data and extracted features in large quantities of unstructured text documents using NLTK and scikit-learn; 2) developed a metric to measure the coherence and typicality of the generated topics using a score called topic coherence calculated for each topic through a formula
- Actualized a two-mode network model that showed the relevance of major issues and stakeholders, using the degree centrality for the assessment, to prioritize the stakeholder-associated issues and explore the criticalness of those issues in the project duration from the perspectives of stakeholders

Multi-Process Task Scheduling System (C Language) *Mar. - Apr. 2019*

- Implemented a scheduling system that can arrange students' daily tasks with fork and pipe strategies and the process scheduling theory of OS
- Realized 4 modules of the system: Input Module (adding the details of tasks like duration, priority, etc.), Scheduling Module (arranging tasks with 3 schedulers implemented by different algorithms including priority, round-robin and the proposed "deadline fighter algorithm"), Output Module(generating scheduled timetables for users), and Analyzer Module (analyzing the performances of algorithms with designed scoring methods to output summary reports)
- Repository: *https://github.com/YukiYJ/OS-Project*

The Jungle Game (Java) *Nov. - Dec. 2018*

- Implemented a Chinese board game (Jungle Game) in Java, which could be played between two persons in the modes of command-line console and GUI
- Designed the game with the Model-View-Controller pattern, and inspected the codes with written test suites and statement coverage using inspection and coverage tools
- Repository: *https://github.com/YukiYJ/OOP-Project*

Tourism Platform Development *Oct. - Dec. 2018*

- Developed a tourism website *ExploreHK* with HTML, CSS, and JavaScript for the front-end, PHP for the back-end, and MySQL for the database, which was ranked among the top 3 of all projects
- Enabled users to obtain tourist information via category and keyword-based / advanced search, customized travel plans based on their preferences, and allowed administrative users to manage user accounts and tourist information and access some statistics and summary information
- Repository: *https://github.com/YukiYJ/Tourism-website*

SKILLS

Programming Languages: Python, Java, C Language, R Language, Matlab, PHP, SQL, JavaScript
Technologies: NumPy, Pandas, Matplotlib, Networkx, NLTK, scikit-learn, TensorFlow, Django, MySQL, HTML, CSS, Linux, Apache Hadoop & Spark, Git