Xuan Luo

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PROFILE

I am a self-motivated, energetic and hardworking undergraduate who has developed leadership and problem-solving skills. My interests are Natural Language Processing and Human Computer Interaction. I have some experience in web development, familiar with HTML, CSS, Flask, JavaScript, Node.js, and EJS.

EDUCATION

University of Southern California, L.A., U.S. — Admitted
University of California, Santa Barbara, Sta. Barbara, U.S.
New York University, N.Y., U.S.
   MS in Computer Science

Harbin Institute of Technology, Shenzhen, China — Sep 2016 - Jun 2021
   Bachelor of Engineering, Computer Science and Technology
   GPA : 88.97/100 or 3.73/4.00, Rank 6 among 70 students

Shenzhen Experimental School, Shenzhen, China — Sep 2013 - Jul 2016
   High school diploma

PROJECTS & RESEARCH

2020   Project: Multimodal Personalized Capsule Wardrobe Recommendation
It is a system which generate capsule wardrobe for users given their original wardrobe. User preference, body shape, and clothing compatibility are modeled by Bayesian Personalized Ranking network, multilayer perception, and Bi-LSTM, respectively. I design the generation algorithm and develop the whole system with 3-tier application architecture. | DEMO |

2019   Research: Multimedia Retrieval Method
We introduce cosine distance to evaluate the semantic correlation between two specific instances to improve the instance similarity method. Based on the instance similarity, we also propose a novel deep instance hashing network, which utilizes instance similarity and binary similarity simultaneously for multi-label cross-model retrieval. | DEMO |

2019   Course Project: ShareToDo - A WeChat Mini Program
It is a synchronized-sharing and easy-management ToDo List. I come up with the idea, define user requirements, design the UI and database, do testing, and make the demo. | DEMO |

2018   Course Project: MovieNest - A Website
It is a website showing the box office and rating of movies with various types of charts, and user can download the charts. I define user requirements, design the UI, do testing, and make the demo. | DEMO |

2017 **Innovative Project: Magnetic Fluid Gadget**

I am responsible for circuit design and implementation. Coil, triode and oscillator(555 timer IC) are main components of my effective and efficient circuit. The magnetic fluid dances to the music elegantly. | DEMO |

PUBLICATIONS

2019 Chengkai Huang, **Xuan Luo**, Jiajia Zhang, Qing Liao, Xuan Wang, Zoe.L. Jiang, Shuhan Qi. "Explore instance similarity: An instance correlation based hashing method for multi-label cross-model retrieval" *Information Processing & Management*

HONORS & AWARDS

2019
- First-class scholarship for excellent students, 2018-2019 academic year.
- Outstanding Student Award, 2018-2019 academic year.
- Second Prize of Drone Operation in national robotics competition.

2018
- Meritorious Winner in MCM/ICM, 2018 (MCM: The Mathematical Contest in Modeling, ICM: The Interdisciplinary Contest in Modeling).
- Second-class scholarship for excellent students, 2017-2018 academic year.
- Outstanding Student Award, 2017-2018 academic year.
- School tennis match Second Prize in Singles.

2017
- First-class scholarship for excellent students, 2016-2017 academic year.
- Outstanding Student Award, 2016-2017 academic year (Criteria: GPA, competitions, and activities).
- Special Prize for Band C in National English Contest for College Students.
- Second prize in oral test in National English Contest for College Students.
- First prize in school sports meeting 400 metres and 4 x 100 metres relay.

ACTIVITIES

1	Played the piano in Shenzhen Concert Hall for undergraduate opening ceremony	2016.9
2	Study Tour: University of Cambridge, UK	2017.2
3	Initiated an improvement plan of elevator operation in students' thirty-story dormitories and promoted its implementation	2018.6-9
4	Organized a freshmen interview for the School of Computer Science and Technology	2018.9
5	"Freshman Welcome" volunteer	2017-2019
6	Summer Camp: Tsinghua Shenzhen International Graduate School	2019.7
7	Interviewed by Shenzhen Economic Daily about Shenzhen Education Development	2020.7