

Jiashu Xu

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EDUCATION

University of Southern California August 2020 – June 2022 <i>B.S. in Applied Math & Computer Science</i> GPA 3.97	University of California, Irvine September 2018 – August 2020 <i>B.S. in Applied Math & Computer Science</i> GPA 3.987	Hong Kong University of Science and Technology June 2019 – August 2019 <i>UCEAP Summer study abroad</i> GPA: 4.0; Study Robotics and Statistics
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ACADEMIC PROJECTS

Folklore stories semantic tagging

- Curated folklore dataset that consists of 1892 unique stories based on Aarne–Thompson–Uther Index
- Developed transformer-based tagging system that can automatically infer the folklore's motif with the accuracy of 81%
- Generated folklore semantic representation that minimizes intra-domain distance and maximizes embedding alignment

Human posture predictions

- Built a pre-processing, data cleansing and data augmentation pipeline for tech startup LookDeep Health
- Designed and implemented a novel architecture *Team2Net* motivated by DenseNet, and trained an ensemble of EfficientNet, MobileNetV2 and Team2Net models to predict patients/doctors' posture in hospital settings with the accuracy of 92%

Full Stack Web Development

- Created *Fablix*: a movie rating website with vue.js, jQuery, Bootstrap Javascript frontend and Tomcat, MariaDB Java backend, and optimized queries to increase average response time by 30%, devised a robust Fuzzy search functionality as UDF based on edit distance and developed Android mobile app that contains core functionalities of desktop version
- Tested scalability using Junit and JMeter, and deployed website on Amazon AWS instances and set up master-slave duplications and Apache load balancer

PROFESSIONAL EXPERIENCE

Johnson & Johnson

Digital & Analytics Data Assistant

August – September 2019

Shanghai, China

- Tracked counterfeit products or parallel products from various sales channels with an NLP approach and implemented context extractor using scikit-learn, snowlp and Gensim
- Presented in PCS 2019 Shanghai about cloud computing and data-driven approach for tracking counterfeit products

Wind Information Co., LTD.

Quantitative Index Research Analyst

March – July 2018

Shanghai, China

- Collaborated with product managers to launch Wind's new product: Wind Equity Backtester and implemented multiple prototype algorithms with test codes using python-wind and Pytest
- Code-reviewed index-related codes, queried Wind index database to resolve clients' complaints

PUBLICATION & AWARDS

A. Chan, B. Long*, **J. Xu***, S. Sanyal, T. Gupta, X. Ren

SalKG: Learning From Knowledge Graph Explanations for Commonsense Reasoning

Explainable AI Workshop, International Conference on Machine Learning (ICML), 2021

Awards: Jennifer Battat Scholarship, USC Transfer Merit Scholarship, Academic Achievement Award, USC Dean's List (all semesters), UCI Dean's List (all quarters)

VOLUNTEER

Teach for LA

Mentor

January 2021 – June 2021

Los Angeles, CA

- 1-on-1 tutored middle school students from LA K-12 community on Mathematics two hours every week
- Inspired students to reach full math potential in preparation for college and STEM careers

Math CEO

Mentor

September 2018 – August 2020

Irvine, CA

- Coordinated meetings with Santa Ana middle school students, taught them mathematical thinking
- Devised intricated math problems and puzzles for students