Xuannan Dong │ Resume

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Education

M.S. in Computer Science   09/2021–06/2023
University California, San Diego   *La Jolla, CA, U.S*

B.S. in Electronic Engineering(Automation) and Artificial Intelligence   08/2016–07/2020
University of Science and Technology of China (USTC)   *Hefei, Anhui, China*
3.61/4.3, 86.16/100. Ranking:30/140.
2019, 2018, 2017 The First Prize Scholarship, School of Information Technology (TOP 6%)

Publication

1. Bang An, **Xuannan Dong**, Changyou Chen, *Repulsive Bayesian Sampling for Diversified Attention Modeling*, NeurIPS Workshop on Bayesian Deep Learning, 2019.

Experiences

Intel Cooperation   02/2021–09/2021
Software Development Intern

- **SpeechUI App**
  * Developed an intelligent voice assistant web App, enabled users to order food, book tickets, navigate, etc, in an integrated platform. Built UI, frontend structure with **React**, **Redux**, and **Bootstrap**, designed dialogue processing flow to offer users prompt and accurate responses.
  * Implemented navigation part. Applied Mapbox GL JS and related Plugins to support precheck for query, visualize realtime route information, intelligently offer route plan, etc.
- **NLP Data Collection Platform**
  * Designed frontend page for an NLP Data Collection Platform. Enabled users to input sample sentences, apply different NLP models, and labeled for the processed result.
  * Built Backend service for the platform. Received and processed **RESTful** request, applied **Apache Thrift** RPC framework to call NLU/NLP service, stored data and corresponding labels into **MongoDB** database.

Yelp-like App Development   11/2020–12/2020
Course Project

- Develop an application to realize basic functions of Yelp. Users are allowed to release and review a post on the homepage, make comments and score on other posts.Project Address,Source Code.
- Utilized Sessions && Cookies for user authentication, AJAX to upload webpages. Dealt with common security problems such as Mongo Injection and Cross Site Scripting.
- Applied Bootstrap to design webpages, Express module of Node.js to support backend service, and MongoDB as database. The project was deployed with MongoDB Atlas and Heroku

Netease ThunderFire   08/2020–11/2020
Data Mining Intern   *Hangzhou, Zhejiang, China*

- Collected and extracted game data with **Hadoop** and **MySQL**. Developed and maintained a Business Intelligence platform, visualized the analytic data with **Python Django** and **Vue**.
- Utilized machine learning methods to make predictions on game trends. Worked across Finance, Player Analysis and was responsible for strengthening the connection between game players and game producers.

University at Buffalo, AI Lab   07/2019–09/2019
Research Assistant   *Buffalo, NY, USA*

- Improve the performance of a pervasive deep learning model Transformer on translation tasks by generating repulsive samples of the attention parameters, utilizing algorithms including Stein Variational Gradient Descent and Stochastic Particle Optimization.
- Achieved state-of-the-art results on translation tasks, outperformed the baseline model by 0.8 BLEU value on small-scale the model and 0.9 BLEU value on the base-scale model.

Skills

Programming Language C, JAVA, PYTHON, MYSQL, HTML, CSS, JAVASCRIPT.

Frameworks & Tools Node.js, React.js, BootStrap, Docker, Git.