Andy (Xiangyu) Cui

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F1-OPT | Sponsor Needed | (402)-853-3000

EDUCATION

Northeastern University	Boston, MA, USA
M.S. in Artificial Intelligence of Khoury College	Sept. 2021-Dec.2023
University of Nebraska-Lincoln	Lincoln, NE, USA
B.S. in Computer Science of Arts Science College	Sept. 2016-May. 2020
Dalian Neusoft University of Information	Dalian, LN, CHN
B.S. in Electronic Information Engineering	Sept. 2013-Sept. 2015

SKILLS

- Programing languages: Java, Python, JavaScript, HTML, CSS, C/C++, Assembly, VB
- Database: MySQL, PostgreSQL, MongoDB, Redis, SQLite, Hive
- Machine Learning: TF-IDF, Naïve Bayes, GPT-2, Bert, CNN, Transformer
- Framework/Libraries: Spring Boot, React.js, Node.js, jQuery
- Version Control & CI/CD: GitHub, TFS, Azure DevOps, Jenkins, Jira
- Others: AWS, Docker, Maven, Tomcat, Axure, Servlet, Junit, Nginx, CAD design, LaTeX, CAD design, Tableau

WORK EXPERENCE

AlpaLifeBio Inc	Woburn, MA, USA
Software Engineering	Dec. 2022- June 2023

- Executed data collection from biomedical public databases through **Python** and graphical **web scraping tools**, enhancing the dataset for advanced analysis.
- Applied NLP techniques for data comparison and matching, effectively identifying potential clients and contributing to targeted marketing strategies.
- Processed and analyzed over 50,000 data entries daily, utilizing graphical data representations to streamline reporting and significantly boost workflow efficiency.
- Consolidated existing datasets for integrated analysis and established a structured **SQL** database, implementing tag processing for improved search and retrieval operations.

PROJECT EXPERIENCE

Amazon QA robot trained by BERT & GPT-2 (NLP)	Boston, MA, USA
Team Leader & Development Designer	Sept. 2023-Dev. 2023

- Developed a Question Answering (QA) system using **GPT-2** and **BERT** models focused on Amazon product reviews, assessing their performance in natural language processing tasks.
- Applied advanced NLP techniques, including **TF-IDF** Vectorization, **CBOW**, and Skip-gram, for effective data preprocessing and analysis.
- Performed comprehensive model training and fine-tuning with a Kaggle dataset, utilizing accuracy, **LOSS**, and **BLEU** score metrics for evaluation.
- Conducted **K-Fold** Cross-Validation and ablation studies to optimize model performance and robustness.

Employment Website Design by Axure (HCI)	Boston, MA, USA
Development Designer	Sept. 2023-Dev. 2023

- Orchestrated the design of an Employment Website tailored for co-op opportunities, meticulously realized through the principles of **Human-Computer Interaction** (HCI) and ensuring an intuitive user experience that aligns with non-technical user habits for widespread acceptance.
- Applied **CRAP design** principles to create a visually cohesive and navigable interface, addressing existing website pain points by incorporating critical features such as visa type and field of work.
- Championed a cohesive UI design philosophy across the platform, securing a seamless and inclusive user experience that appeals to a diverse audience. The design's efficacy and user satisfaction were substantiated through extensive usability testing, confirming that the interface meets high standards of effectiveness and user gratification.

Robot Shop Database (SQL)	Boston, MA, USA
Project Leader & Development Designer	Jan. 2023-May. 2023

- Developed a **Python** and **MySQL**-based Robot Store Management System to streamline operations for small supermarkets, featured in a terminal user interface.
- Implemented SQL database structures and **Python-MySQL** connections, enabling efficient user account, order, and refund management.
- Constructed and documented a secure, offline management system, accommodating customer and operator interactions with potential for web expansion using **Django**.
- Managed project version control with Anaconda and maintained code repository on **GitHub**, with comprehensive end-user documentation and test cases.