

# Andy (Xiangyu) Cui

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

## EDUCATION

### Northeastern University

*M.S. in Artificial Intelligence of Khoury College*

Boston, MA, USA

Sept. 2021-Dec.2023

### University of Nebraska-Lincoln

*B.S. in Computer Science of Arts Science College*

Lincoln, NE, USA

Sept. 2016-May. 2020

### Dalian Neusoft University of Information

*B.S. in Electronic Information Engineering*

Dalian, LN, CHN

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, LaTeX, CAD design, Tableau

## WORK EXPERIENCE

### AlpaLifeBio Inc | Internship

Woburn, MA, USA

*Software Engineer*

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.