

Andy (Xiangyu) Cui

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Looking For SDE/AI/ML/DS Graduated 2023 December | Start work January 2024 | (402)-853-3000

EDUCATION

Northeastern University (NEU) <i>M.S. in Artificial Intelligence of Khoury College</i>	Boston, MA, USA Sept. 2021-Dec.2023
University of Nebraska-Lincoln (UNL) <i>B.S. in Computer Science of Arts Science College</i>	Lincoln, NE, USA Sept. 2016-May. 2020
Dalian Neusoft University of Information (DNUI) <i>B.S. in Electronic Information Engineering</i>	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
- 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

INTERSHIP

Nanobodies CRO Service AlpaLifeBio Inc <i>Software Engineering</i>	Woburn, MA, USA Dec. 2022- June 2023
<ul style="list-style-type: none">● 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

<u>Amazon QA robot trained by BERT & GPT-2</u> (NLP) <i>Team Leader & Development Member</i>	Boston, MA, USA Sept. 2023-Dev. 2023
<ul style="list-style-type: none">● 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.	
<u>Employment Website Design by Axure</u> (HCI) <i>Development Member</i>	Boston, MA, USA Sept. 2023-Dev. 2023
<ul style="list-style-type: none">● 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.	
<u>Robot Shop Database</u> (SQL) <i>Project Leader & Designer</i>	Boston, MA, USA Jan. 2023-May. 2023
<ul style="list-style-type: none">● 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.	