

# Andy (Xiangyu) Cui

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

## EDUCATION

<b>Northeastern University (NEU)</b> <i>M.S. in Artificial Intelligence of Khoury College</i>	Boston, MA, USA   Sept. 2021-Dec.2023
<b>University of Nebraska-Lincoln (UNL)</b> <i>B.S. in Computer Science of Arts Science College</i>	Lincoln, NE, USA   Sept. 2016-May. 2020
<b>Dalian Neusoft University of Information (DNUI)</b> <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, Office, 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"><li>● Executed data collection from biomedical public databases through <b>Python</b> and graphical <b>web scraping tools</b>, enhancing the dataset for advanced analysis.</li><li>● Applied NLP techniques for data comparison and matching, effectively identifying potential clients and contributing to targeted marketing strategies.</li><li>● Processed and analyzed over 50,000 data entries daily, utilizing graphical data representations to streamline reporting and significantly boost workflow efficiency.</li><li>● Consolidated existing datasets for integrated analysis and established a structured <b>SQL</b> database, implementing tag processing for improved search and retrieval operations.</li></ul>	

## PROJECT EXPERIENCE

<b><u>Amazon QA robot trained by BERT &amp; GPT-2</u> (NLP)</b> <i>Team Leader &amp; Development Member</i>	Boston, MA, USA   Sept. 2023-Dev. 2023
<ul style="list-style-type: none"><li>● Developed a Question Answering (QA) system using <b>GPT-2</b> and <b>BERT</b> models focused on Amazon product reviews, assessing their performance in natural language processing tasks.</li><li>● Applied advanced NLP techniques, including <b>TF-IDF</b> Vectorization, <b>CBOW</b>, and Skip-gram, for effective data preprocessing and analysis.</li><li>● Performed comprehensive model training and fine-tuning with a Kaggle dataset, utilizing accuracy, <b>LOSS</b>, and <b>BLEU</b> score metrics for evaluation.</li><li>● Conducted <b>K-Fold</b> Cross-Validation and ablation studies to optimize model performance and robustness.</li></ul>	
<b><u>Employment Website Design by Axure</u> (HCI)</b> <i>Development Member</i>	Boston, MA, USA   Sept. 2023-Dev. 2023
<ul style="list-style-type: none"><li>● 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.</li><li>● 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.</li><li>● 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.</li></ul>	
<b><u>Robot Shop Database</u> (SQL)</b> <i>Project Leader &amp; Designer</i>	Boston, MA, USA   Jan. 2023-May. 2023
<ul style="list-style-type: none"><li>● Developed a <b>Python</b> and <b>MySQL</b>-based Robot Store Management System to streamline operations for small supermarkets, featured in a terminal user interface.</li><li>● Implemented SQL database structures and <b>Python-MySQL</b> connections, enabling efficient user account, order, and refund management.</li><li>● Constructed and documented a secure, offline management system, accommodating customer and operator interactions with potential for web expansion using <b>Django</b>.</li><li>● Managed project version control with Anaconda and maintained code repository on <b>GitHub</b>, with comprehensive end-user documentation and test cases.</li></ul>	