

Education

<b>Northeastern University</b> <i>M.S. in Artificial Intelligence of Khoury College</i>	Boston, MA, USA Sept. 2021-Dec.2023
<b>University of Nebraska-Lincoln</b> <i>B.S. in Computer Science of Arts Science College</i>	Lincoln, NE, USA Sept. 2016-May. 2020

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

<b>AlpaLifeBio Inc   Internship</b> <i>Software Engineer</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</b> tools, 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 <b>50,000</b> 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>	

<b>Dutchgo LLC   Self-employed/CEO</b> <i>Software Engineer Leader</i>	Omaha, NE, USA Dec. 2022- June 2023
<ul style="list-style-type: none"><li>• Spearheaded the team in analyzing market conditions, conducted investigative analytics on Netflix user data to develop similar products, enhancing competitive market positioning.</li><li>• Employed web scraping technologies to aggregate and statistically analyze over 80 million data points across the web, employing graphical data flow techniques for targeted user demographic analysis.</li><li>• Led product development initiatives that generated \$3 million in revenue, employing daily data analysis to inform strategies and rapidly deploy solutions, significantly contributing to the company’s operational efficiency.</li><li>• Implemented process controls to ensure precision in the deployment of all development stages and work segments, resulting in a marked efficiency improvement in a small company setting.</li></ul>	

Projects

<b><u>Amazon QA robot trained by BERT &amp; GPT-2</u></b> (NLP) <i>Team Leader &amp; Development Designer</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 <b>Skip-gram</b>, 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></b> (HCI) <i>Development Designer</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 <b>Human-Computer Interaction (HCI)</b> and ensuring an intuitive user experience that aligns with non-technical user habits for widespread acceptance.</li><li>• Applied <b>CRAP design</b> 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>	