Qi Niu

📞 tel:+1(619)772-2379 ✉ niu.qi1@northeastern.edu

EDUCATION

Northeastern University, Portland, Maine, US *Sep 2023 – Dec 2025 (Expected)*
Master of Science in Computer Science **GPA:4.0/4.0**

University of Manchester, Manchester, UK *Sep 2014 – Nov 2018*
Bachelor of Art (**Honours**) and Master of Science in Finance **Distinction (Top 5%)**

PROJECTS

Pet-friendly Housing Crawler Project *Nov 2023 - Dec 2023*
- Implemented **Python-based web scraping** and utilized **Requests** and **lxml libraries** for efficient **HTTP requests** handling and **HTML** content parsing.
- Enhanced user experience through data visualization by leveraging **Jupyter**, utilizing libraries such as **Matplotlib** and **Seaborn**.
- Extracted data on pet-friendly apartments from **2000 properties**. Successfully **assisted 10 pet owners** in finding suitable accommodation.

Elderly Health Management through Machine Learning-based Monitoring *July 2023 – Aug 2023*
- Analyzed 253,715 data points from the Empatica E4 device using supervised **Machine Learning** techniques, including **Logistic Regression** and **Neural Networks**.
- Leveraged **TensorFlow** for data collection, **preprocessing**, and **model training**, achieving a remarkable **98% accuracy** and **96% precision** with the neural network model.
- Successfully simulated the influence of elderly eating behaviors on health status, highlighting the adverse effects of unhealthy eating habits on the body.

Dating Application for LGBTQ community *Oct 2023 - Now*
- Developed a web-based dating application using **JavaScript**, **HTML**, and **CSS**, providing a platform for communication within the minority community.
- Integrated **MySQL** for data storage and enhanced codebase with **React**. Implemented **Node.js** as the backend server, resulting in a **5%** increase in adoption of **reusable components** and improved application performance.
- Established high-quality end-to-end and unit tests (**over 85% code coverage**) with **JUnit** and improved code review efficiency by **30%**.

WORK EXPERIENCE

CITIC Group China
Project Manager *Dec 2020 – Aug 2023*
- Spearheaded financing services for top real estate firms, managing **transactions totaling $200 million.**
- Directed 7 successful large-scale real estate projects, yielding a cumulative **net profit of $25 million.**
- Led team to surpass profit and growth targets, earning consecutive two-year recognition as top-performing department.

RESEARCH EXPERIENCE

Valuation for REITs in UK *June 2019 – Aug 2020*
Research Assistant *Advisor: Dr.Yihan Guo (University of Warwick)*
- Employed **Web Scraping** for data collection and utilized **Python** and algorithmic analysis to examine the current development status of REITs in the UK.
- Optimized the data model through the implementation of **Monte Carlo simulation**, utilized **Machine Learning** to train the model for further refinement, significantly enhancing the accuracy of data results.

SKILLS

Languages: Python, Java, C, C++, JavaScript, HTML, CSS, SQL
Web Development: React, Node, Spring Boot
Big Data & Machine Learning: Logistic Regression, TensorFlow, MongoDB, MySQL, Redis, AWS