

Shiqin Yan

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EDUCATION

Brown University, School of Engineering

Sep 2020 - May 2022 (Expected)

Master of Science in Computer Science

- GPA 4.00/4.00
- Relevant Coursework: Design and Analysis of Algorithms, Developing Modern Web Applications, Deep Learning

Northeastern University, School of Computer Science and Engineering

Sep 2016 – Jun 2020

Bachelor of Engineering in Computer Science

- GPA 3.84/4.00
- Relevant Coursework: Data Structures, C++ and OOP, Software Engineering, Distributed Systems
- Exchange Undergraduate: University of Pennsylvania, School of Engineering and Applied Science (GPA 3.9/4)

TECHNICAL SKILLS

Languages: Python, C++, C, SQL, JavaScript, TypeScript, VHDL, MATLAB, Kotlin

Frameworks and Libraries: Angular, React, Vue, Redux, Three.js, D3.js, Tensorflow, PyTorch, OpenCV, NativeScript

Database: MySQL, MongoDB, PostgreSQL, Neo4j, InterSystems IRIS

Tools and Platforms: Git, Perforce, Docker, L^AT_EX, Sphinx, Node.js, Flask, Hadoop, Firebase, AWS, JIRA

WORK EXPERIENCE

Software Development Intern

Jun 2021 – Sept 2021

InterSystems Corporation

Cambridge, MA

- Rebuilt graphical user interface for an internal application supporting automated software testing.
- Reimplemented all the formerly server-side rendering frontend pages with **Angular** and **NgRX**.
- Designed and implemented new features to enhance user experience based on everyday users' requests.
- Adapted business logic from legacy backend code into RESTful APIs to make the new GUI functional.

Machine Learning Engineer

Nov 2019 – Jul 2020

NiuTrans

Shenyang, China

- Developed an web-based **visualization toolkit** for key mechanisms in neural machine translation techniques.
- Developed web-based demos for the toolkit gaining 2K+ views.
- Published the toolkit to PyPI repository and wrote detailed documentations to help users quickly get started.
- Contributed impressive visualization pictures to the company's pitch deck.

SELECTED PROJECTS

BrownBytes | HTML, JavaScript, React, Redux, Node, MySQL

Feb 2021 – May 2021

- Managed the development team with **Scrum** framework, coordinating everyday tasks to ensure productivity.
- Developed a **mobile friendly** frontend with **React**, **Bootstrap** and **Redux**.
- Designed database schema and implemented APIs for data interaction between frontend and database on backend.

Machine Translation Quality Estimation System | Python, PyTorch, Fairseq

Apr 2020 – Jul 2020

- Designed and implemented a data cleaning pipeline for datasets in WMT20 contest.
- Implemented a novel neural network model with PyTorch to estimate the quality of machine translation results.
- Won **first place out of fifteen participating teams** in the English-German translation quality estimation task.

Anime-style Movie Poster Generator | Python, Tensorflow, Neo4j

Jun 2019 – Aug 2019

- Developed a web crawler and collected 10,000+ anime-style movie posters.
- Designed and implemented an algorithm for identifying the most representative movie posters of every genres.
- Developed a pipeline to generate anime-style images given users' inputs with neural style transfer algorithm.
- Won the **Best Machine Learning Project Award** in NUS SOC Summer Workshop 2019.

SCHOLARSHIP AND PUBLICATION

- Outstanding Student Scholarship (2016 - 2019): Awarded for ranking in the top ten percent of school
- Publication: The NiuTrans System for the WMT20 Quality Estimation Shared Task. *Proceedings of the Fifth Conference on Machine Translation. Vol. 2. 2020.*