Shiqin Yan

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Education

Brown University, School of Engineering Sep 2020 - May 2022 (Expected)

Master of Science in Computer Science

- Coursework: Design and Analysis of Algorithms, Deep Learning, Developing Modern Web Applications

Northeastern University, School of Computer Science and Engineering Sep 2016 – Jun 2020

Bachelor of Engineering in Computer Science

- GPA 3.84/4.00
- Coursework: Data Structures, C++ and OOP, Compiler Principles, Database Theory, Software Engineering
- Exchange Program: University of Pennsylvania, School of Engineering and Applied Science (2018)

Technical Skills

Languages: Python, C++, C, SQL, JavaScript, TypeScript, HTML/CSS, MATLAB, Kotlin
Libraries: Angular, React, Vue, Redux, Three.js, D3.js, Tensorflow, PyTorch, OpenCV, Fairseq
Databse : MySQL, MongoDB, PostgreSQL, Neo4j
Tools and Platforms: Git, Docker, LaTeX, Sphinx, Node.js, Flask, NativeScript, Firebase, AWS

Work Experience

Software Engineer Nov 2019 – Jul 2020

NiuTrans *Shenyang, China*

- Developed an web-based **visualization toolkit** for key mechanisms in neural machine translation techniques.
- Developed web 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.

Research Assistant Jun 2018 – Sept 2018

Chinese Academy of Sciences *Beijing, China*

- Developed a software for object segmentation in remote sensing images based on OpenCV.
- Increased efficiency of image processing by **over 80%** while achieving accuracy comparable to manual labeling.

Selected Projects

BrownBytes | JavaScript, React, Redux, Node, MySQL Feb 2021 – May 2021

- Managed the development team with **Scrum** framework.
- Implemented a **mobile friendly** front end with React and Redux.
- Designed database schema and APIs for the back end.
- Implemented Google and Facebook SSO (single sign-on) feature with OAuth 2.
- Deployed the platform to AWS with Docker.

Machine Translation Quality Estimation System | Python, PyTorch, Fairseq Apr 2020 – Jul 2020

- Designed and implemented a data cleaning pipeline for the datasets in WMT20 contest.
- Implemented a novel neural network model with PyToch 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.*