Dixiang Zeng

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EDUCATION

Kyoshin Language Academy, Shinjuku School *Oct 2022 - Now*

Shanghai Jiao Tong University(上海交通大学 QS Ranking: 46) *Sep 2016 - Jul 2021*
B.S. in Biomedical Engineering

WORKING EXPERIENCE

51job, Inc. *Jul 2021 - Aug 2022*
Software QA Engineer
In this company, I worked as a software testing engineer. During my tenure, I handled the development and subsequent maintenance of 51shanpin (website), 51miduoduo (app), 51Campus Recruitment (website), and Through Train to Interview (website).

SKILLS

- **Programming Language:** Proficient with Python and SQL.
- **Database:** Proficient with MySQL and Oracle, familiar with SQLyog and redis.
- **Language Proficiency:** English: TOEIC 900; Japanese: N2.

PROJECTS / RESEARCH EXPERIENCE

Development of Through Train to Interview Project *Mar 2022 - Aug 2022*
Python/SQL @51job,Inc.
As the main person in charge of this project, I was responsible for the full-cycle testing of the Through Train to Interview Project, from initial development to launch and official operation. The main work contents are as follows.

- Develop and execute test plans for software applications.
- Collaborate with development teams to identify and resolve defects.
- Conduct manual testing of web and mobile applications.
- Participate in code reviews and provide feedback on quality issues.

Segmentation of X-ray Intraoperative Angiographic Image Sequences Based on Deep Learning *Jan 2021 - Jul 2021*
Lab project
Introducing graph neural network attention mechanism in deep learning segmentation algorithm based on U-Net structure, and also improving the design of loss function to achieve better segmentation effect on microvessels.

- Responsible for the reproduction and optimization of the original algorithm.
- The algorithm is implemented in Python, using the Tensorflow architecture, and running on a GPU server.

Localization and Dynamics of Yeast Nucleosomes *Mar 2020 - Oct 2020*
Lab project
DNA was obtained by micrococcal nuclease digestion of yeast chromatin in different growth states, thereby extracting free nucleosomes, and after obtaining samples, library construction and sequencing reactions for high-throughput sequencing were performed, followed by informatics analysis to determine the location of nucleosomes and their expression.

- Responsible for the laboratory operation of enzymatic digestion and DNA extraction.
- Further nucleosome localization and data analysis by Trimmomatic, Bowtie 2, Integrative genomics viewer and other software at later stage.