Ziqi (Alan) Dong

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EDUCATION

Carnegie Mellon University, School of Computer Science — Pittsburgh, PA
Master of Software Engineering - Scalable Systems — Dec. 2020
Selected Coursework: Introduction to Computer Systems, Models of Software Systems, Managing Software Development.

Northeastern University — Shenyang, China
Bachelor of Engineering in Software Engineering — Jun. 2019
Selected Coursework: Operating System, Introduction to Distributed System, Introduction to Artificial Intelligence.

Nanyang Technological University — Singapore
Short-term Visit Program in Innovation and Entrepreneurship — Feb. 2018

SKILLS

Programming Languages: Java, C, C++ (Advanced), Python, HTML, JavaScript, SQL (Intermediate), CSS (Novice).
Software & Framework: IntelliJ IDEA, CLion, Qt, Eclipse (Advanced), PyCharm, Matlab, TensorFlow, Keras (Intermediate), OpenCV (Novice).

EXPERIENCE

Virginia Tech — Blacksburg, VA
Research Intern — Sep. - Nov. 2018, Mar. - Jun. 2019

- Designed and implemented a similar code detecting tool which includes a CNN model to rate the similarity of pairs of code snippets. Achieved an accuracy of 98% in the J2EE test dataset and 96% in the BigCloneBench test dataset.
- Mined open source repositories for migration-related (MR) commits and constructed a database which was used in Meditor, a tool learns API migration pattern, achieved 95%+ accuracy.
- Evaluated the effectiveness of manual, monkey and stochastic model-based (Stoat) testing, which indicated that Stoat testing performs the best in terms of lifecycle events and is able to mimic human behaviors for certain apps.

NEUSoft Inc. — Shenyang, China
Software Engineering Internship — Jun. - Sep. 2018

- Developed the beta-version of an end-to-end smart logistics system by Qt framework that takes operational commands from mobile applications and communicates with the core database for further business operations.
- Implemented a highway toll system using Qt, OpenCV and Caffe model which is capable of recognizing vehicle plates at the highway entrance to achieve automatic payment. Achieved 97% accuracy in Neusoft Enterprise Database.

Northeastern University — Shenyang, China
Research Assistant — Mar. - Jun. 2017

- Carried out a neural network model to predict human pre-miRNA by TensorFlow, which achieved 90%+ accuracy.
- Conducted data retrieval and pre-processing 1216 raw pre-miRNA sequence.

PUBLICATIONS

- Shengzhe Xu, **Ziqi Dong**, Na Meng, Meditor: Semantics-Based Generation and Application of API Migration Edits, 2019 ACM International Collegiate Programming Contest (ICPC 2019).
- Chaohe Zhang, Dancheng Li, Hongfa Wu, Chunyan Han, **Ziqi Dong**, Hailong Li, Chen Ding, A Prediction Method of MicroRNA Based on TensorFlow Framework, 2017 CHINESE NATIONAL CONFERENCE on COMPUTERS APPLICATION (NCCA 2017).

HONORS

Meritorious Winner, Mathematical Contest in Modeling, COMAP — 2018
Academic Outstanding Individual, Northeastern University — 2018
Second-class Scholarship, Northeastern University — 2017, 2018
Second Prize, Contemporary Undergraduate Mathematical Contest in Modeling, CSIAM — 2017