

Education

M.Eng in Software Engineering | Shanghai Jiao Tong University

2018.9 -

Big data software engineering lab | Advised by **Beijun Shen** (http://base.sjtu.edu.cn/~bjshen/) Research direction: Bug Localization, Code Knowledge Graph

Shanghai, China

B.Eng in Software Engineering | Shanghai Jiao Tong University

2014.9 - 2018.6

Main courses: Data Structures and Algorithms / Software Engineering / Data Mining / Computer System

Shanghai, China

Research

BugPecker: Locating faulty methods with deep learning on revision graphs

Junming Cao, Shouliang Yang, Wenhui Jiang, Hushuang Zeng, Beijun Shen, and Hao Zhong.

The 35th IEEE/ACM International Conference on Automated Software Engineering (ASE 2020, new idea)

CocoQa: Question Answering for Coding Conventions over Knowledge Graphs

Tainjiao Du, Junming Cao, Qinyue Wu, Wei Li, Beijun Shen*, Yuting Chen.

The 34th IEEE/ACM International Conference on Automated Software Engineering (ASE 2019, tool demo)

Constructing a Knowledge Base of Coding Conventions from Online Resources

Junming Cao, Tianjiao Du, Beijun Shen*, Wei Li, Qinyue Wu, Yuting Chen.

The 31th International Conference on Software Engineering and Knowledge Engineering(SEKE 2019)

Project

BugPecker | A bug localization system

2019.9 - 2020.7

Big Data Software Engineering Lab, Shanghai Jiao Tong University

https://github.com/RAddRiceee/BugPecker

- Challenge: Lots of methods are short and lack sufficient details to be matched against bug reports.
- **Approach:** Build revision graphs from past fixes, and discover relations inside them to expand the details of methods to assist the localization of faulty ones.
- Result: BugPecker significantly improves the MAP values of two prior approaches.

CocoQa | A question answering system for coding conventions

2018.9 - 2019.5

Big Data Software Engineering Lab, Shanghai Jiao Tong University

https://github.com/14dtj/CocoQa

- Parse a given question into a SPARQL query and acquire its candidate nodes and relations from a knowledge graph by subgraph matching.
- Consider coding conventions as paragraphs, then retrieve answers with Match-LSTM model.
- Apply a logistic regression classifier to rank the candidates.
- Implemented CocoQa as an Intellij Idea's plugin and a web service.

DeepEye | A pornographic image classification system

2017.7 - 2017.9

Backend Developer Intern, Youtu Al Lab, Tencent

Shanghai, China

- Develop efficient backend services by deploying new modules of Nginx.
- Develop a distributed crawling system with Scrapy.
- Crawled millions of images per day to train and test porn image identifying algorithm.

Skills

Honors

Java / C++ (intermediate) Go/Python/Scala(begin) Git / Spark / PyTorch

- CUMCM (China Undergraduate Mathematical Contest in Modeling 2018): National Second Prize in 2018
- MCM(Mathematical Contest in Modeling): Meritotious Winner in 2017