Yuxiang Zhu

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EDUCATION

Software Institute, Nanjing University Nanjing, China
Master of Engineering in Software Engineering; GPA: 88.4/100 *Expected Jun. 2020*

Software Institute, Nanjing University Nanjing, China
Bachelor of Engineering in Software Engineering; GPA: 85.6/100 *Sept. 2014 - Jun. 2018*

ACADEMIC EXPERIENCE

Research Assistant Nanjing, China
Software Engineering Group, State Key Laboratory for Novel Software Technology, NJU *Nov. 2016 - Present*

- **Issue Classification**: Developed a model to classify issues from GitHub and Jira.
    * Collected and preprocessed over 1.2M issues in GitHub and Jira.
    * Altered and implemented the k-NN algorithm to detect issues with misclassified input.
    * Implemented and trained an attention-based bi-LSTM, resulting in 11.1% improvement in F1-score compared to SVM model, and 5%-8% improvement in F1-score compared to state-of-the-art approaches.
    * First-authored a paper on the findings: **Y. Zhu** *et al.*, "A Bug or a Suggestion? An Automatic Way to Label Issues," arXiv:1909.00934 [cs], Sept. 2019.
- **Pull Request Summarization**: Implemented and trained a seq-to-seq model to summarize diff files in pull requests into short informative messages. Achieved a BLEU score of 17.3 on a test set of 30k pull requests.
- **Program Comprehension**: Conducted a systematic literature review in the field of program summarization.
    * Examined 41 relevant studies from 2010 to 2019. Compared different approaches and discussed different techniques used in the state-of-the-art approaches.
    * First-authored a paper on the findings: **Y. Zhu** and M. Pan, "Automatic Code Summarization: A Systematic Literature Review," arXiv:1909.04352 [cs], Sept. 2019.
- **Requirement Extraction**: Developed a tool to automatically collect and analyze user reviews in Google Play.
    * Collected, filtered, and preprocessed 394k user reviews from 100 popular apps.
    * Designed and implemented the K-Means++ algorithm to cluster reviews by tf-idf word vector, and then selected words with highest tf-idf weight in each cluster as keywords.
    * Created a completely automatic tool and developed a Java Web website to display the result.

PROFESSIONAL EXPERIENCE

Software Engineer Intern Shanghai, China
Meituan-Dianping Inc. *Jul. 2017 - Jan. 2018*

- **GroupJoy**: As the project manager, led a team of six newcomers to design and develop a platform for internal employees to launch and attend activities, socialize, and find common interests. We spent four weeks on collecting requirements, designing and coding; currently, our system is still serving thousands of employees.
- **CustomerInfoService**: Maintained and iterated a Java Web System full-stack-ly, enabling more than 40k sales staff to register, manage, and contact merchants all over China.
- **Data Analysis**: Analyzed and visualized data of the merchant relationships among 1M merchants. Set up a system which emails daily statistical graphics about our merchant data to all (15) colleagues in our group.

SCHOLARSHIPS

- First-Class Scholarships for Outstanding Students, Nanjing University (Top 10%) *Nov. 2016*
- Second-Class Scholarships for Outstanding Students, Nanjing University (Top 20%) *Nov. 2015*

SKILLS

- **Languages**: Python, Java, SQL, C++, PHP, HTML, CSS **Technologies**: Maven, Git, Linux, Microsoft Office, Spark, LaTeX
- **Development**: Object Oriented, Databases, Machine Learning, NLP **Standard Tests**: TOEFL 107; GRE V160+Q170+AW3.5