

# Yuxiang Zhu

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## EDUCATION

### Software Institute, Nanjing University

Master of Engineering in Software Engineering; GPA: 88.4/100

Nanjing, China

Expected Jun. 2020

### Software Institute, Nanjing University

Bachelor of Engineering in Software Engineering; GPA: 85.6/100

Nanjing, China

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.
- **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, including 41 relevant studies from 2010 to 2019. Compared and discussed techniques used in the state-of-the-art approaches.
- **Stars' Microblog Analyzer:** Designed a cluster algorithm to **group stars who posted similar content** on Weibo (known as Chinese Twitter). Used the **PageRank** Algorithm to identify the central star of each group.
- **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.

## PUBLICATIONS

- **Y. Zhu**, M. Pan, Y. Pei and T. Zhang, "A Bug or a Suggestion? An Automatic Way to Label Issues," [arXiv:1909.00934 \[cs\]](https://arxiv.org/abs/1909.00934), Sept. 2019. Manuscript submitted for publication.
- **Y. Zhu** and M. Pan, "Automatic Code Summarization: A Systematic Literature Review," [arXiv:1909.04352 \[cs\]](https://arxiv.org/abs/1909.04352), Sept. 2019. Manuscript submitted for publication.

## 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 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 large Java Web System full-stack-ly, which enables more than 40k sales staff to register, manage, and contact merchants all over China.

## 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