

Yuxiang Zhu

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EDUCATION

Software Institute, Nanjing University
Master in Software Engineering; GPA: 8.84/10.0

Nanjing, China
Expected Jun. 2020

Software Institute, Nanjing University
Bachelor in Software Engineering; GPA: 8.56/10.0

Nanjing, China
Sept. 2014 - Jun. 2018

ACADEMIC EXPERIENCE AND INTERNSHIP

Research Assistant

Software Engineering Group, State Key Laboratory for Novel Software Technology, Nanjing University

Nanjing, China
Oct. 2018 - Present

- **Issue Classification:** Developed a model to classify issues from Issue Tracking Systems such as GitHub and Jira
 - * Collected and preprocessed over 1.2M issues in GitHub and Jira to prepare a clean dataset for training
 - * Altered and implemented the k-NN algorithm to detect issue that is wrongly classified by its submitter, resulting in 1.3% improvement in F-score of final model
 - * Implemented and trained an attention-based bi-directional 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
 - * A first-authored article is in preparation
- **Pull Request Summarization:** Implemented and trained a sequence-to-sequence model to summarize diff files in pull requests to short informative messages. Achieved BLEU score of 17.3 on test set of 30k pull requests
- **Program Comprehension:** Conducted a systematic literature review in the field of automatic source code summarization
 - * Examined 41 relevant studies from 2010 to 2019. Compared different approaches and discussed different techniques used in the state-of-the-art approaches, including 4 kinds of data extraction method, 4 kinds of description generation method, 5 kinds of evaluation method, and 7 kinds of code artifact
 - * A first-authored article is under review

Research Assistant

Software Engineering Group, State Key Laboratory for Novel Software Technology, Nanjing University

Nanjing, China
Nov. 2016 - May 2018

- **Requirement Extraction:** Developed a tool to automatically collect and analyze user reviews in Google Play
 - * Collected and preprocessed 394k user reviews from 100 popular apps
 - * Used information entropy to filter out 41.3% user reviews that didn't contain enough information for requirements
 - * Designed and implemented the K-Means++ algorithm to cluster reviews by tf-idf word vector. Then we selected words with highest tf-idf weight in each cluster. For every app, we formed 60 clusters and display them with keywords lists, ordered by Silhouette Coefficient
 - * Formed a completely automatic tool and developed a Java Web System to display the result

Software Engineer Intern

Meituan-dianping Inc.

Shanghai, China
Jul. 2017 - Jan. 2018

- **GroupJoy:** As the project manager of a team of six newcomers, designed and developed a platform for internal staff to launch and attend activities, to socialize and find common interest. We spent 4 weeks on collecting requirements, designing architecture and coding. Our system contains more than 4k lines of code, serving hundreds of staffs
- **CustomerInfoService:** Maintained and iterated a Java Web System full-stack-ly, which helps the sales staff register, manage, and contact with merchants.
- **Data Analysis:** Analyzed and visualized data of merchant relationship, involving over 1M merchants. Independently set up a small system which emails every day statistics graphics about our merchant data to all(15) colleagues in our group

PROJECTS

- **Stars' Microblog Analyzer:** A model to analyze Chinese entertainment stars' behavior by microblog content
 - Collected 60k microblogs of 500 stars in Weibo. Designed and implemented a cluster algorithm to group stars that send similar content. Used the Pagerank Algorithm to identify the center star of each group
- **Stock Analysis:** A website that comprehensively and visually displays statistics and graphics of stock data
 - Crawled historical records of stocks from famous stock website and generated statistics and graphics
 - Built a sub-system that enables user to design static buy-and-sell strategy and simulate it to see its profitability

SKILLS

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