

Xihao Xie

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EDUCATION

Ph.D. in Computer Science

Expected Spring 2024

Southern Methodist University

Advisor: Professor Jia Zhang

Research Interests: Service Computing, Recommender System, Machine Learning, Big Data

M.E. in Software Engineering

Jul. 2013

University of Chinese Academy of Sciences

Research Interests: Software Engineering, Recommender System

B.S. in Computer Science

Jul. 2010

University of Science and Technology of China

RESEARCH EXPERIENCE

Research Assistant

Jun. 2022 – Present

Department of Computer Science, Southern Methodist University

- Assistant to Professor Jia Zhang, conducting research on service recommendation and machine learning.
- Developed core modules of project Sci-Hub as a core member.

Research Assistant

Aug. 2021 – Jan. 2022

Department of Computer Science, Southern Methodist University

- Assistant to Professor Jia Zhang, conducting research on service recommendation.
- Coordinated the IEEE International Conference on Smart Data Services (SMDS'21).

Research Assistant

Sep. 2011 – Jul. 2013

Institute of Software, Chinese Academy of Sciences

- Assistant to researcher Ye Yang, conducting research on developer recommendation in software engineering.

TEACHING EXPERIENCE

Adjunct Faculty

Aug. 2022 – Present

Department of Computer Science, Southern Methodist University

- Lecturer of discrete mathematics for undergraduate students, Fall 2022 & Spring 2023.

Teaching Assistant

Feb. 2022 – May 2022

Department of Computer Science, Southern Methodist University

- Taught a section on software testing of class of software engineering.
- Led discussion sections, graded projects and exams.

PUBLICATIONS

X. Xie, J. Zhang, R. Ramachandran, T. J. Lee, and S. Lee. “Goal-Driven Context-Aware Service Recommendation for Mashup Development,” in Proceedings of the 24th IEEE/ACIS International Winter Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD’22-Winter), 2022.

X. Xie, J. Zhang, R. Ramachandran, T. J. Lee, and S. Lee. “Learning Context-Aware Service Representation for Service Recommendation in Workflow Composition,” in Proceedings of the 22nd IEEE/ACIS International Hybrid Conference on Computer and Information Science (ICIS’22), 2022, pp. 60-65.

X. Xie, W. Zhang, Y. Yang, and Q. Wang. “DRETOM: Developer Recommendation based on Topic Models for Bug Resolution,” in Proceedings of the 8th International Conference on Predictive Models in Software Engineering (PROMISE’12), 2012, pp. 19-28.

CONFERENCE PRESENTATIONS

[**Oral**] **X. Xie**, J. Zhang, R. Ramachandran, T. J. Lee, and S. Lee. “Goal-Driven Context-Aware Service Recommendation for Mashup Development,” the 24th IEEE/ACIS International Winter Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD’22-Winter), 2022, virtual.

[**Oral**] **X. Xie**, J. Zhang, R. Ramachandran, T. J. Lee, and S. Lee. “Learning Context-Aware Service Representation for Service Recommendation in Workflow Composition,” the 22nd IEEE/ACIS International Hybrid Conference on Computer and Information Science (ICIS’22), virtual.

PATENTS

W. Zhang, **X. Xie**, Y. Yang, and Q. Wang. “A kind of software deficiency report automatic distributing method of defect tracking system”, CN: CN103246603A, 08.14.2013.

HONORS AND AWARDS

1st Prize in Computer Science at SMU Research & Innovation Week 2022	Mar. 2022
<i>Department of Computer Science at Southern Methodist University</i>	
Tuition Fellowship to pursue a Ph.D.	Aug. 2021 - Present
<i>Southern Methodist University</i>	
Best Promotion Defense Award	Aug. 2019
<i>Department of CDG, Tencent Technology</i>	
National Scholarship Award	Jan. 2013
<i>University of Chinese Academy of Sciences</i>	
Bronze Prizes of Outstanding Student Award	Sep. 2009, Sep. 2008
<i>University of Science and Technology of China</i>	
Silver Prizes of Outstanding Freshman Award	Sep. 2006
<i>University of Science and Technology of China</i>	

ACADEMIC SERVICES

Reviewer	Jun. 2022
<i>IEEE Transactions on Service Computing (TSC)</i>	
<ul style="list-style-type: none"> Reviewed 1 journal paper submitted for possible publication 	

PROFESSIONAL EXPERIENCE

R&D Center of FAW-Volkswagen

Chengdu, China

Big Data Architect

Jun. 2020 – Jul. 2021

Project: Intelligent Marketing Data Platform

Team Leader

Description: integrating multiple data sources to support business growth of the newly established division of electric vehicle

- Designed architecture and technical specifications of data platform and query federation engine.
- Integrated 5+ heterogeneous data sources from 6+ channels, increasing decision efficiency of the board by 10+ times.
- Broadened the impact of the whole team by 5+ times through promoting our platform to 5+ teams in 3+ departments.

Tencent Technology Beijing Co. Ltd.

Beijing, China

Senior Development Engineer

Apr. 2018 – Mar. 2020

Project: Greenspan – the intelligent data platform of Tencent Social Ads

Core Member

Description: integrating multiple data sources to facilitate query federation and intelligent data analysis for department

- Implemented the feature of metrics board to support intelligent and automatic query generation over 3+ heterogeneous data sources, increasing efficiency of data analysis by 200+ times for 4+ teams, which was highly rated by colleague and made me honored as the **best** promotion defense in department and ranked **top 3** out of 10 in annual assessment.
- Implemented backend modules of metadata management, permission control, data subscription and data persistence.
- Implemented 6+ query federation oriented dialects for 6+ various data sources, increasing efficiency of data analysis activities by 10+ times.

UCredit Financial Services

Beijing, China

Senior Data Engineer

Sep. 2017 – Mar. 2018

Project: Ikkyu - the financial big data platform of Renrendai

Core Member

- Modeled, processed and generated financial business data reports.
- Implemented a B/S based data subscription system, increasing efficiency of data reporting with 20+ times.

China Life P&C, Yunnan Branch

Kunming, China

Software Development Engineer

Aug. 2016 – Aug. 2017

Project: BI@Report

Core Member

- Processed 200+ business reports for colleagues and leaders
- Built the real-time data crawling system and the external data importing system

Software R&D Center of Agricultural Bank of China

Beijing, China

Software Development Engineer

Jul. 2013 – Jul. 2016

Project: Financial Big Data Platform

Core Member

- Modeled, processed and generated financial business data reports
- Developed a B/S based schedule monitoring system, increasing team's work efficiency with **60+** times

REFERENCES

Jia Zhang

Ph.D., Cruse C. and Marjorie F. Calahan Centennial Chair in Engineering, Professor

Interim Chair, Department of Computer Science

Southern Methodist University, Dallas, TX

(312) 718 – 2468, jiazhang@smu.edu