

Xuan Xie

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EDUCATION

Sun Yat-sen University

Guangzhou, China

Bachelor of Engineering in School of Data and Computer Science / Software Engineering / GPA: 3.6/4.0 / Ranked: 21/120

RESEARCH EXPERIENCE

Sun Yat-sen University

Research Assistant (Supervised by Dr. Xiaoxing Yang)

September-December, 2017

- Replicated data extraction process and helped develop data retrieving process for defect prediction

Research Assistant (Supervised by Professor Jiajing Wu)

March-Present, 2018

- Found two critical issues in cross-version defect prediction: the selection of proper version and class-overlapping file
- Proposed a model called CDS to solve the aforementioned issues
- Tried to extend the dataset which is not limited to Java

Mobile Network and Big Financial Data Laboratory, Inplus Lab

Laboratory Research Intern (Supervised by Professor Zibin Zheng and Professor Jiajing Wu)

March-Present, 2018

Hong Kong University of Science and Technology

Visiting Intern (Supervised by Professor Shing-Chi Cheung)

July-Present, 2018

- Found rules for API misuses
- Designed MUTAPI, an approach to discovering API misuse patterns via mutation analysis
- Explored the relations between bug-fixed commit and bug-induced commit by studying static bug detector

LEADERSHIP/TEAMWORK EXPERIENCE

Sun Yat-sen University

The Mathematical Contest in Modeling (Group Member)

February, 2018

- Responsible for modeling and optimizing modeling system
- Adopted Particle Swarm Optimization Algorithm in model building
- Successfully generated prediction on future development of Tesla's Charging Stations and electronic vehicles

Course Sign-in System Design (Supervised by Professor Yang Yi)

March, 2018

- Discussing with group members in the project of designing a course sign-in system
- Responsible for front-end pages designing and testing for the interaction between front-end pages and back-end system

Teaching Assistant (Supervised by Professor Kun Zeng)

March-Present, 2018

- Assisted in answering academic inquiries from students and coached Java programming projects for students
- Maintained the school-developed assignment system MATRIX
- Renewed homework notification for undergraduates on the system

PUBLICATION

CDS: A Cross-Version Software Defect Prediction Model with Data Selection

(Draft to ICSE 2019)

Exposing Library API Misuses via Mutation Analysis

(Draft to ICSE 2019)

ACADEMIC AWARDS

Third-class Scholarship

Sun Yat-sen University, 2017

Honorable Mention Award for COMAP's International Mathematical Contest in Modeling

Sun Yat-sen University, 2018

SKILLS AND INTERESTS

Skills and Strengths: C/C++ Programming; Java Programming; Machine learning; Data Mining

Research Focuses: Machine learning; Data Mining; Software Engineering

Research Interests: Defect Prediction; Software Engineering

LANGUAGE PROFICIENCY

Chinese: Native

English: Fluent (TOEFL: 94 CET-4: 608 CET-6: 537)