

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

RESEARCH EXPERIENCE

Sun Yat-sen University

Research Assistant (Supervised by Professor Jiajing Wu)

March-December, 2018

- Found two critical issues in cross-version defect prediction: the selection of proper versions and class-overlapping files
- Proposed a model called CDS to solve the aforementioned issues

Mobile Network and Big Financial Data Laboratory, Inplus Lab, SYSU

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

March-December, 2018

Hong Kong University of Science and Technology

Visiting Intern (Supervised by Professor Shing-Chi Cheung)

July-December, 2018

- Designed MUTAPI, the first approach to discovering API misuse patterns via mutation analysis
- Discovered API misuse can be validated via executing it against test suites and analyzing the execution information
- Collected a benchmark dataset which contains over one hundred regression bugs
- Ran static bug finders on regression bugs and extract features from bug-inducing changes

Southern University of Science and Technology

Visiting Student (Supervised by Professor Yepang Liu)

December-Present, 2018

- Exploring the relationship between build script and commit messages in Android projects

TEAMWORK/TEACHING 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 (Group Member)

March, 2018

- Discussed 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 for Software Engineering Project(Mid-level)

March-July, 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

Exposing Library API Misuses via Mutation Analysis

ICSE 2019

ACADEMIC AWARDS

Third-class Scholarship

Sun Yat-sen University, 2017

Third-class Scholarship

Sun Yat-sen University, 2018

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

Research Focuses: Machine Learning; Data Mining; Software Engineering

Research Interests: Defect Prediction; Software Engineering; Static Analysis Warning Prioritization

LANGUAGE PROFICIENCY

Chinese: Native

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