

DAZHI FENG

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EDUCATION

Southern University of Science and Technology , Shenzhen, China <i>Undergraduate</i> instructed by Prof. Yinqian Zhang. Junior GPA: 3.94/4.0	Sept. 2020 – June 2024
University of Notre Dame , Notre Dame, IN <i>Exchange Student</i> GPA: 4.0/4.0	Aug. 2023 – Dec. 2023
University of California, Irvine , Irvine, CA <i>Remote Internship</i> , supervised by Prof. Joshua Garcia	Mar. 2023 – June 2023

RESEARCH PROJECT

Fuzzing Android APIs through Automatically Generated Unit Tests <i>Independent Research Project</i> instructed by Prof. Xiaoyu Sun Android is a widely used system, deployed on devices ranging from smartphones to IoT devices and automobiles, and the APIs it provides affects everyone. Still, there are few researches on the security of the APIs using fuzzing technique because of the number of them and the complexity to invoke them. In this research, we extend the tool JUnitTestGen, which automatically generates unit tests for individual APIs, to allow fuzzing on these APIs efficiently and accurately.	Aug. 2023 – Present
Few-Shot Learning IR Embedding Based Function Similarity <i>Independent Research Project</i> instructed by Prof. Yinqian Zhang Matching similar codes is a fundamental task in software engineering with various applications, e.g. plagiarism detection and vulnerability analysis. However, most existing techniques perform only one-to-one matching and are dependent on specific languages. We propose a novel approach combining Intermediate Representation matrix embedding and Few-Shot Learning to perform one-to-many matching of similar functions in different languages. A paper on this project is submitted to SANER 2024 and is now under review.	Feb. 2023 – Nov. 2023
Automatic Reproduction of AV System Bugs <i>Independent Research Project</i> instructed by Prof. Joshua Garcia Numerous bug reports are submitted to Autonomous Vehicle (AV) system developers, but manually reproducing these bugs is time-consuming. In this project, we use computer vision techniques to automatically reconstruct the buggy scenes to help reproducing the bugs.	Mar. 2023 – June 2023

PUBLICATION

1. [SANER'24 Short Paper] Dazhi Feng, Yinshuai Li, Qingyang Zhou, Yinqian Zhang. "Few-Shot Learning IR Embedding Based Function Similarity". Status: Under Review

EXPERIENCE

CS305 Computer Network Teaching Assistant instructed by Prof. Zhuozhao Li	Feb. 2023 – June 2023
President of the Student Union Elected president of the Student Union of Southern University of Science and Technology	Oct. 2021 - Oct. 2022

GRADES AND SELECTED AWARDS

• TOEFL iBT: 111/120 (Top 5% globally)*	
• Second-Class Merit Student Scholarship	Oct. 2023
• 3 rd Prize, Contemporary Undergraduate Mathematical Contest in Modeling	Dec. 2022
• Third-Class Merit Student Scholarship	Dec. 2022
• Best Test Mark, NUS School of Computing Summer Workshop	July, 2022
• Third-Class Merit Student Scholarship	Dec. 2021

*According to TOEFL iBT Test Score and Data Summary 2022

‡Last Updated: Dec. 20, 2023