

HUIHUI HUANG

Southern University of Science and Technology – Shenzhen – China

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Education

Undergraduate Education

Sept. 2020 - Present
Shenzhen, Guangdong

Southern University of Science and Technology

B.E. in Computer Science and Engineering

GPA: 3.9/4 (Junior) & 3.69/4 (Overall)

Member of ARiSE, supervised by **Prof. Yuqun Zhang**

Academic Experience

An Extensive Study on the Binary Diffing Problem

Keywords: Disassembly, NLP, Function Call Graph, Binary Similarity

Feb. 2023 - Jun. 2023

- Studied state-of-the-art binary similarity detection techniques and binary diffing methods.
- Evaluating state-of-the-art baseline techniques with our testing sets.
- Exploring innovation points for further research and contributing a publication.

An Extensive Study on Large-scale Software Composition Analysis System

Keywords: SCA, Software Security, Semantic Extraction, Static Analysis

Sept. 2022 - Jan. 2023

- Studied state-of-the-art software composition analysis systems extensively.
- Conducted experiments to evaluate the accuracy of third-party library dependency extraction of **CENTRIS**.
- Proposed a new algorithm to improve **CENTRIS** performance.

Key Projects

School forum website - **SUSTech Just-Say-It**

Techniques: Spring Boot, PostgreSQL, JMeter, Huawei Cloud, Docker Hub

Feb. 2023 - Jun. 2023

- A full-stack forum website with several features, including anonymous mode and AI integration for post recommendation and toxic detection.
- Responsible for back-end, including the implementation, testing, and deployment of the web server.
- Project result: displayed at the software engineering lecture as full score representative, and is currently being further optimized and promoted.

Lisp Interpreter in Java

Realizations: Function, Closure, Lambda Operator, Lazy Evaluation

Jun. 2022 - Sept. 2022

- Implemented a Lisp interpreter in Java programming language realizing the above features.

Honors

- The Second Class Scholarship of the University (Top 10%) Nov. 2021 & Nov. 2022
- Honorable Mention in Mathematical Contest in Modeling (Top 20%) Feb.2023
- The Second prize in China Undergraduate Mathematical Contest in Modeling (Top 20%) Sept.2022
- Bronze Award of Huawei Kunpeng Innovation Application Competition Nov.2022
- Outstanding Student Leaders of the University Sept.2022

Positions of Responsibility

- **Teaching Assistant** of Computer Organization Principle Feb. 2023 - Jun. 2023
- **Teaching Assistant** of Introduction to Java Programming Sept. 2022 - Jan. 2023
- **President of the Student Union** of Zhixin College Sept. 2021 - Jun. 2022

Technical Strengths

- **Programming Languages:** Java, Python, C/C++, SQL, JavaScript, Verilog, MIPS
- **Frameworks:** Spring Boot, MyBatis, JUnit, Node.js, Vue.js
- **Developer Tools:** GitHub, VS Code, PyCharm, IntelliJ IDEA, CLion