

CHI XU

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EDUCATION

Undergraduate Education

Southern University of Science and Technology

B.E. in Computer Science and Engineering, Overall GPA: 3.86/4.00; Ranking: 7/166

Member of Software Quality Lab (SQLab), supervised by Prof. Yepang Liu

Sept. 2019 - Present

Shenzhen, Guangdong

English Proficiency

TOEFL: 97 GRE: 329 (159+170+3.5)

Honors

- Outstanding Student Leaders Apr. 2020
- Excellent student representative of college May. 2020
- The First Class Scholarship of the University Nov. 2020 & Nov. 2021
- The Second prize in Contemporary Undergraduate Mathematical Contest in Modeling Sept. 2021
- The Second Prize of the National Software Testing Contest for College Students Oct. 2021

ACADEMIC EXPERIENCE

Railway System | *PostgreSQL, Vuejs, SpringBoot, python*

Nov. 2020 - Dec. 2020

- Outcome: Implemented a Railway System like 12306 in China, designed the relational table without redundancy, adding index and view, displayed by a front-end with Vue concisely, kept security and prevented SQL injection by procedure, trigger and transaction, proved reliable under high concurrency.
- Assessment: Highest score project in curriculum of Database Principle

Modified Pac Man | *Unity3D, C#, Photon, Python, MySQL, Probuilder*

Sept. 2021 - Nov. 2021

- Outcome: Implemented an online game adapted from Pac Man, all services deployed on servers, supported upload of AI scripts, beautiful UI with Photoshop and Probuilder.
- Assessment: Highest score project in curriculum of Oriented Object Analysis and Design, aimed to be deployed as a platform for curriculum of AI

Detecting Webassembly VM vulnerabilities via fuzz testing

Sept. 2021 - Present

Keywords: Webassembly, emscripten, AST, Fuzz, virtual machine

- Goal: Aim to find some vulnerabilities via fuzz testing and research the solutions to fix them.
- Progress: Implemented AST analysis and code coverage detecting, designing MCMC algorithm and code instrumentation

EXTRACURRICULAR ACTIVITIES

Co-maintainer and -developer of the [SUSTech Application \(https://sustech-application.com\)](https://sustech-application.com) Jun. 2020 – Present

Teaching Assistant of CS102A: Introduction to Java Programming, SUSTech Feb. 2021 - Jun. 2021

Software Intern, Carrier Network Business Group, Huawei June. 2021 - August. 2021

Peer Mentor & Student Group Leader of Zhiren College Oct. 2021 - Present

Teaching Assistant of CS202: Computer Organization and Design, SUSTech Feb. 2022 - Present

Teaching Assistant of CS307: Principle of Database, SUSTech Feb. 2022 - Present

Campus Ambassador of CFF in SUSTech, SUSTech April. 2022 - Present

TECHNICAL SKILLS

Programming Language: Java, Python, C/C++, SQL, JavaScript, HTML/CSS

Frameworks: SpringBoot, MyBatis, Node.js, JUnit

Developer Tools: GitHub, VS Code, PyCharm, IntelliJ, CLion, MATLAB