

YINGQING CHEN

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EDUCATION

South China University of Technology (SCUT)

Guangdong, China

School of Computer Science and Engineering
Bachelor of Engineering in Information Security

Sept. 2017 - Present

RESEARCH EXPERIENCE

Smart Contract Vulnerability Detection, SCUT

Jan. 2021 - Present

Research Assistant

Advisor: Professor Lu Lu

- Used n-gram algorithm for feature extraction from simplified operation codes of smart contracts.
- Applied Long Short Term Memory (LSTM) networks to build the vulnerability detection models.

JPEG Image Encryption, SCUT

Mar. 2019 - Nov. 2019

Research Assistant

Advisor: Professor Junhui He

- Researched on the methods of JPEG image encryption based on bitstream for improved format compatibility.
- Proposed an adaptive encryption key construction method to defeat known plaintext attack.
- Designed a software of picture viewing with various image processing functions.

Blockchain Infrastructure Research and Application, SCUT

Mar. 2018 - Mar. 2019

Research Assistant

Advisor: Professor Shaohua Tang

- Collaborated with graduates to construct a blockchain project to realize the bank notarization application.
- Developed blockchain smart contracts and deployed on Hyperledger Fabric.
- Researched on modifiable blockchain technology by using Distributed Random Generation (DRG) protocol.

OTHER PROJECTS

Study Led by Circles, SCUT

Nov. 2019 - Apr. 2020

Team Leader

- Built a WeChat applet which provided a platform for college students to consult on campus doubts.
- Designed the database of course materials and questions set and improved the searching efficiency.
- Developed the function of punching the clock in studying to help college students improve their self-discipline.

Study on Pressure Control of High Pressure Oil Pipe, SCUT

Sept. 2019

Team Leader

- Built a flow balance model and a fuel compression model to keep the pressure in the tubing stable.
- Adopted Proportion Integral Differential (PID) control principle for cooperation of oil supply and injection.
- Optimized the model with theoretical total correction coefficient for more accurate control of tubing pressure.

AWARDS AND HONORS

Second prize in Wechat App Development Competition of South China

2020

Third prize in Chinese Collegiate Computing Competition

2020

Anjubao Scholarship (4 out of 49, 8.2%)

2020

Merit student of SCUT

2020

Outstanding student cadres of SCUT

2020

Third prize in Contemporary Undergraduate Mathematical Contest in Modeling in China

2019

Third prize in Youth Talents International Innovation and Entrepreneurship Competition

2019

One star volunteer in Guangdong Province

2019

Excellent secretary of Computer Science and Engineering Student Union

2018

ACTIVITIES

Monitor of Information Security class

2017 - 2021

Vice Minister of Academic and Research Department, Red Keyboard Organization

2018 - 2021

Secretary of Public Relations Department, Computer Science and Engineering Student Union

2017 - 2018

SKILLS

Programming Languages
Tools

Python, C, C++, Java, Kotlin, Matlab, Javascript, HTML, CSS, MySQL
Microsoft Visual Studio, PyCharm, IntelliJ IDEA, UltraEdit, Dreamweaver,
Android Studio, VMWare, Oracle