Yilong Yang

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Profile

College of Computer Science, Zhejiang University
Achievements in **Information Olympiad** at the national level
Research experiences in **blockchain** and **computer architecture**
Proficiency in English and various programming languages

Education

Zhejiang University, Hangzhou, China
Bachelor of Computer Science *Sept' 18 - Jun' 22 (Expected)*
GPA: 3.67/4.00 (Overall)

Key Courses

Linear Algebra(4.0)
C Programming Language(4.0)
Java Programming Language(4.0)
Computer Architecture(4.0)
Operating System(4.0)
Database System(4.0)
Advanced Data Structure and Algorithm Analysis(4.0)
Introduction to Applied Operations Research(4.0)
Image Analysis and Artistic Processing(4.0)

Awards

Bronze Metal in China Collegiate Programming Contest(CCPC), Xiamen Site *2019*
Second Price in The 19th Zhejiang University Programming Contest *2019*
Bronze Metal in The 29th China Team Selection Competition(CTSC) (Olympiad in Informatics) *2017*
Bronze Metal in The 11th Asia and Pacific Informatics Olympiad (China District)(APIO) *2017*
First Price in National Olympiad in Informatics in Provinces(NOIP) *2016*

Research Interests

Blockchain Security and Smart Contract Security
Computer Architecture and Spectre Attack
Data Structure and Algorithm Design

Research Experiences

Transaction System for Crowdsourcing Cloud Platform Based on Blockchain
Supervisor : Prof. Jianhai Chen *Apr '20 - Present*

- Conducted research on blockchain and safety verification of smart contracts
- Implemented crowdsale smart contracts in Solidity
- Verified security of crowdsale smart contracts which can support cloud server trading by applying tools from papers like Verx

Defence of Spectre Attack
Supervisor : Prof. Kai Bu *Dec '20 - Present*

- Conducted research on spectre attacks and methods to defend it
- Discovered vulnerability on undo-based approach to safe speculation purposed by paper *CleanupSpec: An "Undo" Approach to Safe Speculation*

Projects

Course Projects

- Implemented version of classic game **GOLD MINER** by ourselves using C programming language
- Constructed **music player** using SWORD development board in Verilog in **Digital Logic Design** course
- Developed **virtual library manage system** using JDBC and Spring in **Database System** course

Other Projects

- Developed translation tool which can translate multiple languages based on Google translation by python
- Implemented image classifier which can recognize different kinds of flowers using Tensorflow

Computer Skills

Languages: C/C++, Python, Java, kotlin, Solidity, Verilog, Assembly (x86, MIPS, RISC-V)
ACM/ICPC/OI: Candidate master on codeforces

English Proficiency

- CET6: 574
- TOEFL: 102
- GRE General Test: 153(Verbal) + 170(Quantitative) + 4.0(Analytical Writing)