# KunPeng Ren

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## Education

M.S. in Software Engineering                                    Sept. 2017 - Present
Peking University - Haidian, Beijing

B.S. in Computer Science                                         Sept. 2013 - June. 2017
HuaQiao University- Xiamen, FuJian

## Skills

Programming Languages: Python, Java, JavaScript, OCaml, Solidity,  C++
Technology: Blockchain, Data Mining, Web Security, Symbolic Execution
Software Development: Ethereum DApp, Android App, Web App

## Research Experience

**Research Intern - Database System Research Group of NUS**        July. 2019 - present
Advisors: Quang-Trung Ta, Beng Chin Ooi
- Researched on Smart Contract Verification
- Focus on integer overflow bug detection in Smart Contract

**Graduate Research Assistant - Infosec Laboratory of PKU**        Apr. 2018 - July. 2019
Advisors: Huiping Sun, Zhong Chen
- Investigated on the Framework of Enterprise Blockchain, Blockchain use case in insurance and vehicles
- Researched on blockchain privacy and security , Bitcoin Mixing
- Researched on Honeywords,  proposed a new Honeywords Generation method

**Visiting Student  - NISL of THU**                                Sept. 2018 - Dec. 2018
Advisors: Shuqiang Lu, Haixin Duan
- Researched on Bitcoin transaction analysis: data mining and visualization
- Researched on Bitcoin malicious transaction analysis: transaction classification and tracking

**Security Research Intern - 360 Enterprise Security Group**       Nov. 2017 - Apr. 2018
- Researched web security, reproduced vulnerabilities, maintained attack detection rules
- Studied Monero Mining, Startum Mining protocols and Mining trojans

## Publications

CorneaReflect：Face Liveness Detection for Smartphone Based on Corneal Reflection
*Pre-public, China Communications 2019*

## Honors and Awards

Project: BCHVis (BCH blockchain transaction visualization analysis system)
      DoraHacks x BCH Faith Hack Hackthon **Champion** 2018.7
Scholarship: National Encouragement Scholarship(Top 5%) 2015.12