

Alex Luoyuan Xiong

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EDUCATION

Nanyang Technological University

Singapore

B.Eng in Electrical and Electronic Engineering

Aug 2015 – June 2019 (expected)

- Sino-Singapore STEM Scholarship; on track to Honours (Highest Distinction); GPA: 4.64/5.0
- Minor in Entrepreneurship: courses including Marketing, Accounting and Finance, Growth Hacking and Enterprise Strategy

PROFESSIONAL EXPERIENCE

Blockchain at NTU

Singapore

President, Founder

Oct 2017 - Present

- Co-founded and bootstrapped the largest Blockchain student club in Singapore with 50+ active members and 10+ global partners including *Blockchain@Berkeley* and *EthGlobal*
- Co-designed 3 technical syllabuses for *MSc in Blockchain* for NTU and taught *Blockchain Fundamental* courses with 400+ accumulated attendees and online views.

Kyber Network

Singapore

Blockchain Research Intern

Nov 2017 - Aug 2018

- **Gormos:** Co-authored GORMOS, a novel protocol for high-performance decentralized applications without compromise on security or decentralization.
- **Blockchain Scalability Advocate:** Conducted technical deep dives on major scalability solutions for permissionless blockchain, including Plasma and its variants, Sharding and State Channel.

National Cybersecurity R&D Lab

Singapore

Full-stack Developer Intern

Aug 2017 - Dec 2017

- **Full-stack Web Development:** Architected, developed and deployed a web portal from scratch for a catalog of discovered vulnerabilities, using *Django Framework*, *RESTful* and *Nginx Server*.

ConsenSys LLC

New York

Blockchain Security Intern

May 2017 - Oct 2017

- **Bytecode Verifier:** Developed an open source command line tool, noticeably simplified the verification of actual compiled bytecode of smart contracts against that on Blockchain.
- **Smart Contract Audit:** Co-audited smart contracts in *Ox-Project* with ConsenSys Diligence team; *Ox-Project* securely launched their token sales securely raising 24 million USD worth of Ether.

SELECTED PROJECTS

- **AuthView:** Decentralized Review System with *React.js*, *Redux Framework*, Chrome extension, *Nodejs Express Server* and *Solidity Smart Contract*. (<https://github.com/AlexXiong97/nrc-react>)
- **Alexa Controlled Robotic Arm:** A voice controlled robotic arm playing sliding puzzle using *AWS*, *Alexa* and *Arduino*. (<https://github.com/AlexXiong97/alexa-skill-with-arduino-webclient>)
- **Web Development:** Websites built using *Jekyll Framework* or *Django Framework* (<https://alexxiong.xyz> & <https://ntublockchain.org> & <https://vindex.ncl.sg>)

SKILLS & RESEARCH INTEREST

- **Programming Languages:** Proficient in: JavaScript, Golang and Solidity; Familiar with Python, TypeScript; Previously used Matlab, C and Java.
- **Research:** *Applied Cryptography:* Zero-Knowledge Proof, Secure MPC; *Blockchain:* Generalized State Channel, privacy-preserving blockchain, Verifiable Markets.