# Mengqi (Menki) Chen

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## Biography

As a junior solidity engineer, I am passionate about blockchain technology and its potential to transform industries. With a strong foundation in smart contract development and blockchain concepts, I am excited to apply my skills to create secure and efficient decentralized applications. I am a quick learner and thrive in fast-paced environments, where I can collaboratively solve complex problems and innovate new solutions. I am seeking a challenging role where I can further develop my skills and contribute to the advancement of the blockchain ecosystem.

## Skills

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| **Solidity:** | Proficient in Solidity language and completed quite a few widely used smart contrasts demo. |
| **ERC Standards:** | Understand ERC standards (ERC-20, ERC-721, ERC-1155, ERC-4626), and be able to write smart contracts that conform to these standards. |
| **Hardhat:** | Familiar with Hardhat frameworks, able to use them for smart contract development, testing, and deployment. |
| **Ethers.js:** | Familiar with Ethers.js libraries, able to interact with the Ethereum network. |
| **BlockChain:** | Knowledge of popular blockchain applications, such as Uniswap, AAVE, Yearn and Compound in Defi. |
| **Other Skills:** | Proficient in using Linux common commands, Docker container management, Git code collaboration development. |

## Selected Projects

**Solidity Demo** *May 2023 - Jul 2023*

Solidity

- Provides a collection of Solidity Applications. I implement these demos from scratch. Some demos contain unit testing by hardhat.

**BlindAuction** *May 2023 - Jul 2023*

Solidity

- A contract showcases a blind auction implemented using Solidity, which allows for secure and confidential bidding without revealing the bid amounts to other participants until the end of the auction.

**Tokenized Vault** *May 2023 - Jul 2023*

Solidity

- A pure-ERC2426 implementation for tokenized vault, code reference to ERC4626 contract in openzeppelin and solmate.

## Work Experience

**Tencent Inc.** *Shenzhen, Guangdong, China*

Machine Learning Engineer (Intern) *Jun 2021 - Oct 2021*

- Designed and implemented deep learning model to improve the performance of short video recommendation.
- Responsible for characterizing users' interest in videos published by different creators based on behavioral data, and discovering creators that they are interested in.
- Responsible for completing group portraits, cold starts, building heterogeneous graphs of videos and providing implicit vectors of users and videos using graph embedding algorithms.
- Collaborated with Tencent PCG teams to ensure seamless integration of the deep learning models, resulting in increased user engagement.

## Education

**Shenzhen University** *Shenzhen, Guangdong, China*

Ph.D. in Parallel Information Processing *Sept 2017 - Dec 2023 (Expected)*

**University of Toronto** *Toronto, Canada*

Summer school student *Sept 2021 - Dec 2021*

**Shenzhen University** *Shenzhen, Guangdong, China*

MS in Software Engineer *Sept 2015 - July 2017*

- Graduated with Distinction

## Publications

### Journal Articles

SnapUnlock: A Contrastive Learning-Based Contactless Authentication via Heterogeneous Sensors
Mengqi Chen, Jiawei Lin, Wanlong Li, Yongpan Zou, Kaishun Wu
*Wireless Communications and Mobile Computing* 2022 (2022). Hindawi, 2022

Behavicker: Eavesdropping Computer-Usage Activities through Acoustic Side Channel.
Mengqi Chen, Jiawei Lin, WeiFeng Liu, Kaishun Wu
*Wireless Communications & Mobile Computing* (2022). 2022

## Conference Proceedings

Silentsign: Device-free handwritten signature verification through acoustic sensing
Mengqi Chen, Jiawei Lin, Yongpan Zou, Rukhsana Ruby, Kaishun Wu
*2020 IEEE International Conference on Pervasive Computing and Communications (PerCom)*, 2020