

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

- Solidity:** Proficient in Solidity language and completed quite a few widely used smart contracts 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

Languages

English Professional proficiency

Chinese Native proficiency

Japanese JLPT N2