

Shuhan Zeng

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EDUCATION

- **University of Electronic Science and Technology of China** Chengdu, China
B.Eng. in Software and Engineering
Elite Program; GPA: 3.88/4.0; Average Score: 88.2
Sep. 2019 - Jul. 2023
- **University of Electronic Science and Technology of China** Chengdu, China
Master of Engineering in Software and Engineering
Sep. 2023 - Present

PUBLICATIONS

- **A Deniably Authenticated Searchable Public Key Encryption Scheme in Mobile Electronic Mail System.**
Shuhan Zeng, Yongjian Liao, Chuanhao Zhou, Jinlin He, Hongwei Wang. *IEEE Trans. On Mobile Computing*, in submission.

PATENTS

- **Secure Index for Fine-Grained Searchable Public Key Encryption Based On Bloom Filter.**
Yongjian Liao, Shuhan Zeng, Yingjie Dong, Hongwei Wang, Jinlin He, Huan Xiong. Accepted.

EXPERIENCE

- **University of Electronic Science and Technology of China** Chengdu, China
Research Assistant - Prof. Yongjian Liao
Apr. 2023 - Present
 - **Searchable Public Key Encryption:** Worked on designing, security proving, analyzing, and simulating a searchable public key encryption based on Diffie-Hellman key agreement protocol.
 - **Efficiency:** Worked on improving efficiency of retrieval of searchable public key encrypted keywords, and security proof of the searchable public key encryption scheme.
- **Sichuan University** Chengdu, China
Research Intern - Dr. Wen Huang & Prof. Yongjian Liao
Oct. 2023 - Present
 - **Privacy Preserving:** Worked on designing, analyzing, and simulating an application combining with fully homomorphic encryption and deep learning.
- **Massachusetts Institute of Technology** Online
REU Program
Jan. 2023 - Feb. 2023
 - **Concept Learning About Computer Vision:** Engaged in an immersive exploration of deep learning fundamentals, I applied acquired knowledge to construct a Classification Convolutional Neural Network.
 - **Model Building About Computer Vision:** Collaborated on implementing a network for semantic segmentation of image data, contributing to the creation of a robust system. Notably, I participated in generating estimations of arbitrary and cognitive uncertainties related to segmentation tasks.
- **Longsys. Co., Ltd.** Shanghai, China
Development Intern
Feb. 2022 - Aug. 2022
 - **Frontend Development:** Actively contributed to the construction, testing, and maintenance of internal systems. Specifically focused on frontend development, I played a key role in ensuring the smooth functionality of company systems. My responsibilities included building and testing user interfaces, enhancing system usability, and providing valuable support to the Frontend team.

SELECTED HONORS AND AWARDS

- Excellent Student Scholarship - 2019.
- Excellent Social Practice Award - 2021.
- Excellent Bachelor Thesis - 2023.
- Graduate Freshmen Scholarship - 2023.

SKILLS

- **Programming:** Java, JavaScript, Python, Latex, C
- **Language:** Mandarin (native), English