

# Shuhan Zeng

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## EDUCATION

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- **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

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

## PATENTS

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- **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

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- **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

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

## SKILLS

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