

# Tong Tang

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## ***Education Background***

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- **Beijing University of Technology (BJUT)** 2017.09-2021.07
  - College: College of Computer
  - Major: Information Security      - Degree: Bachelor of Engineering      - GPA: 3.87/4.0
  - Minor: Finance      - Degree: Bachelor of Management      - GPA: 3.91/4.0
  - Core Courses: *Calculus, Discrete Mathematics, Linear Algebra, Probability and Statistics, Mathematical foundation of information security, Algorithm and Data Structure, C-Programming, Object-Oriented Programming languages (Java), Principles of Computer Organization, Computer Network, Information Security Architecture, Cryptography* etc.

## ***Honors & Certificates***

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- A Patent of *A Method based on Cloud-fog Collaboration for Industrial Internet Sensitive Data Protection* in 2019
- Excellent Prize of National College Students Information Security Competition in 2019
- Academic Excellence Award of BJUT in 2019
- Third Prize of Physics Olympiad of BJUT in 2018
- Merit Student of BJUT in 2018
- Outstanding Student Cadre of BJUT in 2018

## ***Academic Projects***

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### 2020.02-2020.10 **Resisting Collusion Attack based on Correlation Method under Wireless Sensor Network (WSN)**

- Identified malicious nodes based on correlation theory to solve the problem of collusion attacks in WSN
- Used the second-order dispersion differential filter to obtain a time series of abnormal conditions of each sensor based on temporal correlation, distinguished malicious and faulty nodes based on spatial correlation, and finally validated the malicious nodes based on event correlation

### 2019.11- 2019.12 **CTF (Capture The Flag) in BJUT**

- Used relevant tools and methods of information security to solve the problem issued by the designer within the specified time
- Became more familiar with many information security practice tools like Kali operating system

### 2019.03-2019.10 **Ministry of Industry and Information Technology 2018 Industrial Internet Innovation Development Project**

- Innovations: used the industrial data protection scheme of Cloud and Fog Collaboration, quickly disturbed sensitive data based on the improved RAPPOR algorithm of localized differential privacy, sacrificed accuracy to reduce the CPU ratio of the algorithm within the allowable range
- Challenges: the complexity of Google's RAPPOR algorithm and the lack of relevant literature
- Contributions: studied RAPPOR and proposed improvements, applied Adaboost algorithm to the model as well as wrote documents and drew drawings
- Results: participated in National College Students Information Security Competition and obtained the

patent *A Method based on Cloud-fog Collaboration for Industrial Internet Sensitive Data Protection*

## ***Extracurricular Activities***

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2019.07-2019.08 **Volunteer of International Voluntary Workcamp “HOPESHINE”**

- Responsible for Landscaping work on the territory of Special School N 14 for children with visual impairments
- Communicated with these disabled children and knew the local facilities and equipment
- Obtained Certificate of Appreciation of HUJ Board, Special School N 14

## ***Internship Experience***

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2021.2-2021.8 **HPCAI Research Engineer of THeWake Systems Ltd.**

- Deep learning framework (Pytorch, Paddle) research, operator coding

## ***Personal Skills & Hobbies***

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### **Technical Skills:**

- Programming Language: C, C++, Java, Python, Matlab, Assembly Language, Verilog
- Programming Tools: Sublime Text, Pycharm, CLion, Vim
- Database: SQL
- Operating Systems and Compiler: Linux Ubuntu, Centos, Kali, gcc
- Network Tools: Packet Tracer, GNS3
- Disassembly Tools: IDA pro, Ollydbg

### **Hobbies:**

- Being fond of jogging, swimming, Sudoku and playing the basketball
- Being Familiar with Router, Switch Configuration and Document writing