

Zedong Peng

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EDUCATION

- **Shanghai Jiao Tong University** Shanghai, China
B. Eng in Information Engineering; GPA: 3.48/4.3 Sep. 2020 - Jun. 2024
Courses: Machine Learning, Linear Algebra, Embedded System and Interface, Data Structures
- **Shanghai Jiao Tong University** Shanghai, China
Master of Science in Computer and Data Technology Sep. 2024 - Jun. 2027(Expected)

SKILLS SUMMARY

- **Programming:** C, C++, Python, Verilog, shell, Docker, matlab
- **Languages:** CET6:481, GERMAN:A1

EXPERIENCE

- **John Hopcroft Center for Computer Science of Shanghai Jiao Tong University** Shanghai, China
Research includes security and privacy in machine learning. Conducted by Liyao Xiang. Jul. 2022 - Present
- **Cooperative Medianet Innovation Center of Shanghai Jiao Tong University** Shanghai, China
Research includes multi-label learning with imbalanced dataset. Conducted by Jiangchao Yang. Feb. 2023 - Jun. 2023
- **Intel Asia Pacific R&D Company** Shanghai, China
Software Engineer Intern Nov. 2023 - Present

SCHOOL PROJECTS

- **VR Game "Strang Zoo" (Unity3D)**
VR & AR design and development practice, CS085 Sep. 2021 - Jan. 2022
 - Implement an original VR adventure puzzle game.
 - Tech: Unity3D, C##, Microsoft Virtual Reality.
- **Reliability Assessment and System Optimization of a Multi-Node Sonar System**
Modeling and Simulation of Engineering issues, ICE2305 Sep. 2021 - Jan. 2022
 - This study investigates the relationship between the number of nodes and the operational lifespan of a sonar system, and provides an optimal solution.
 - Tech: MATLAB, Monte Carlo method, Markov chain.
- **High-level Robot Design and Control**
Shanghai Jiao Tong University 4th "Yunhan Cup" RobotMaster Intramural Competition Sep. 2021 - Jan. 2022
 - Use SolidWorks software for structural design, laser cutting for fabrication
 - Arduino as the electronic control center, and C programming for motor and servo control
 - Achieve the robot's motion and gripping capabilities and win 1st Prize.
 - Tech: C, Arduino, SolidWorks
- **Automatic Tracking Camera (Computer Vision)**
Engineering Practice, SI1210 Feb. 2021 - Jun. 2021
 - Implement a face recognition function by using OpenCV library. Implement an automatic camera tracking function by using Raspberry Pi (Linux system).
 - Tech: Python, Linux, Raspberry Pi

PUBLICATIONS

- [TDSC'24] Haohua Duan; **Zedong Peng**; Liyao Xiang; Yuncong Hu; Bo Li; "A Verifiable and Privacy-Preserving Federated Learning Training Framework," in IEEE Transactions on Dependable and Secure Computing (TDSC), Digital Object Identifier: 10.1109/TDSC.2024.3369658, 2024. (CCF-A)

HONORS AND AWARDS

- The second prize of the non-mathematics group of the 13th National University Mathematics Competition - 2021
- Shanghai Jiao Tong University 4th "Yunhan Cup" RobotMaster Intramural Competition 1st Prize - 2021
- Liu Yongling Foundation Scholarship - 2021
- Shanghai Jiao Tong University B-class Merit Scholarship - 2021
- Advanced Individual in Social Practice of Shanghai Jiao Tong University - 2021

VOLUNTEER EXPERIENCE

- **Community Cleanup Volunteer** Hubei, China
Garbage collection, leaf sweeping, and drain cleaning to a community of 300 residents Jan. 2021 - Feb. 2021
- **Team Leader of Summer Social Practice** Shanghai, China
Organized events, conducted workshops. Led 10 students in learning Chinese history. Jun. 2021 - Sep. 2021