Liu Jinfan

(+86) 15008278732 | 3020202184@tju.edu.cn |
chrisvicky.github.io [1] | github.com/ChrisVicky

Education

Tianjin University |Computer Science and Technology| *Undergraduate* 2020.09—2024.06 (Expected)

Technical Skills

- **Programming Languages**: C/C++, Python, SQL, Java, Golang, Lua, Rust, Shell, Matlab, Tex, etc.
- **Workflow**: Arch Linux, Shell, (Neo)Vim, Git, GitHub, IDEA (SpringBoot), etc.
- **Back-End**: Java (SpringBoot), Golang (GORM), Python (Flask), SQL, Docker, Redis, nginx, WASM, etc.
- **Research**: Distributed Swarm Control, ROS, CV, Wi-Fi positioning, Multimodal Perception, PyTorch ML, etc.

Project Experience

TJU • TWT Studio |*Back-end Team Leader* • "*52Hz*" *Development and Maintenance* 2021.03-2021.05

- **Independently completed** the redesign and implementation of the database, business logic, and core matching algorithm
- **Coordinated** the switch of other team developers to the new API and product testing, ensuring the project was launched on time on 520

TJU • TWT Studio |*Back-end Team Leader* • "*BBS*" *Maintenance and Refactoring* 2022.06 - Now

- **Organized** three developers to refactor "BBS (Campus Forum)" from Golang's GORM framework to Java's SpringBoot framework
- **Responsible for** the main maintenance work, including the design and implementation of Java and Golang patch codes and server maintenance issues

Research Experience

Hu Qinghua Research Group |***National*** 2021.09 - 2022.09

- **Implemented** distributed control and synchronization of multiple quadrotor drone swarms driven by the ROS system, and the model solving local optimal solutions
- Hand-made and drove multiple drones, conducted flight tests and other experiments, pioneering real-machine experiments in the research group
- **Responsible for** organizing the research results and team "Z.E.U.S: Disaster Emergency Drone Swarm System" to participate in "Internet+" and other competitions, winning the gold medal

Tong Xinyu Research Group |***Team Leader*** 2022.09 - Now

- **Assisted** the PhD students of the research group in validating the efficiency and performance differences of LSTM in RFID system positioning prediction models in PyTorch and Matlab implementations
- **In charge of** the main research, code design, and implementation of the project "Synchronization and Perception of Visual and Wi-Fi Multi-modal Maps", main technology stack: libfreenect2 open-source library, libssh, SLAM, OpenCV library, YOLOv5 model, socket framework, cURL library, Flask framework

Awards

Suzhou Yuchai Scholarship (10,000 yuan)	2022.11.15
TJU 2021 Outstanding Student	2021.10.31
The Second Chuan-Shu Model Student Aid Award (60,000 yuan)	2020.07.14
NOIP (First Prize)	2018.12.15
The 31st Chengdu Youth Science and Technology Innovation Competition (Elite Award)	2015.12.04

Personal Summary

- Loyal user of Arch Linux, with rich experience in software development and "tinkering", has written multithreaded programs. **English: TOEFL 104** [2]
- **GPA: 3.78/4.0**, participated in multiple engineering and research projects while maintaining a good GPA. Actively participated in public welfare activities to broaden horizons. Understands and studies suckless and other software design philosophies

[1] Underlined content contains hyperlinks. [2] Test on January 14, 2023 (Reading 26, Listening 26, Speaking 25, Writing 27)