# 刘 一芃

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🏛 清华大学 • 交叉信息研究院　　🎓 2002-04　　🏠 上海

　　交叉信息研究院博士一年级在读，计算机科学与技术系本科优秀毕业生，现任学生网络与开源软件协会 (TUNA) 会长。热爱计算机专业，熟悉 C++,Python 等编程语言与 GNU/Linux 的使用，具有一定英文基础。完成多个挑战性课程项目并参与校级项目，在软硬件领域、工程与科研方向均进行了探索与尝试，取得全国特等奖在内的多项荣誉，并曾入围系综合奖学金答辩。实践开源精神，参与开源社区活动并积极开放源代码；加入答疑坊等志愿组织，累计志愿服务时长超五百小时。公路骑行与游泳爱好者，现役交叉信息研究院泳队。

## 🔧 技能和语言

　　编程　C/C++,Python,Rust
　　　　　SQL,Shell,Web

🅰🈯 英语　上海英语高考 137 分
　　　　　大学英语四级考试 647 分 / 六级考试 623 分

## 🎓 科研经历

| | |
|---|---|
| 现在<br>2021.06 | **交叉信息研究院** • 张焕晨<br>数据库 • 云数据仓库存储格式与自动聚合 |
| 2020.10<br>2020.02 | **计算机科学与技术系** • 刘知远<br>自然语言处理 • 疫情谣言传播结构分析 |

## 💼 主要项目与荣誉

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|---|---|
| 2022.06 | **计算机系优秀毕业生** • 酒井之星 |
| 2021.08<br>2021.04 | **全国大学生计算机系统能力培养大赛** (C++,ARM)<br>编译系统设计赛特等奖，并获华为毕昇杯 |
| 2021.05<br>2020.10 | **NaiveDB++** (C++,SQL)<br>支持持久化序列存储、索引加速、JOIN 操作、MVCC 与 WAL 故障恢复的数据库框架 |
| 2020.10 | **计算机系单项奖学金** • 学业进步、社会工作、科技创新、志愿公益 |
| 2021.01<br>2020.09 | **Untitled Router** (Verilog,RISC-V,C)<br>在 FPGA 上实现五级流水线 RISC-V 处理器，并基于此实现支持 RIPv2 协议的硬件转发引擎 |
| 2020.04<br>2020.03 | **109 周年校庆云合影** (Flask,Vue)<br>访问量达百余万，收到多封知名校友感谢信 |
| 2019.12<br>2019.10 | **清华大学第二十一届电子设计大赛** (STM32,C)<br>基于传感器的智能车对战积分赛，商汤特等奖 |
| 2019.04 | **清华大学第三十七届挑战杯** • 交叉学科二等奖、发明专利一项 |
| 2017.05 | **国际数学建模挑战赛** • 大中华区特等奖 Outstanding Winner |
| 2016.04 | **美国大学生数学建模竞赛** • 一等奖 Meritorious Winner |

# Yipeng Liu

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🏛 IIIS, Tsinghua University    🎓 April 2002    🏠 Shanghai

Highly motivated Ph.D. student of IIIS, Tsinghua University with robust skills in design and programming. Proficient in coding while enthusiastic about computer technologies. Open-source advocate, proudly a member of the TUNA community. Have participated in numerous projects and competitions across both software and hardware domains, winning several top awards. Cycling and swimming lover, having a strong sense of team spirit and communication.

## 🔧 Competences & Languages

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|---|---|
| **Programming** | `C/C++,Python,Rust` |
| | `SQL,Shell,Web` |
| 🔤 **English** | Shanghai NMET 137 |
| | CET4 647 / CET6 623 |

## 🎓 Research Experiences

| | |
|---|---|
| Present | Huanchen Zhang, **Institute for Interdisciplinary Information Sciences** |
| 2021.06 | Automatic reclustering algorithm for cloud data warehouse in Database |
| 2020.10 | Zhiyuan Liu, **Department of Computer Science and Technology** |
| 2020.02 | Network structure on rumor propagation during the COVID-19 epidemic in NLP |

## 💼 Projects & Awards

| | |
|---|---|
| 2022.06 | **Outstanding Graduate** Department of Computer Science and Technology |
| 2021.08 | **CSC Compiler Contest** (`C++,ARM`) |
| 2021.04 | First Prize, Bisheng Special Award. |
| 2021.05 | **NaiveDB** (`C++,SQL`) |
| 2020.10 | On-disk database system with support of INDEX, JOIN, MVCC and WAL. |
| 2020.10 | **Scholarships** Academic Progress, Social Work, Innovation, Volunteer. |
| 2021.01 | **Untitled Router** (`Verilog,RISC-V,C`) |
| 2020.09 | RIPv2 compatible router on self-designed `RISC-V` processor of five-stage pipelining. |
| 2020.04 | **109th Anniversary of Tsinghua University Online** (`Flask,Vue`) |
| 2020.03 | Over a million visits with several letters of thanks from senior alumni. |
| 2019.12 | **Electronic Design Competition** (`STM32,C`) |
| 2019.10 | First Prize, SenseTime Special Award. |
| 2019.04 | **Tsinghua's Challenge Cup** Second Prize, one patent. |
| 2017.05 | **International Mathematical Modeling Challenge** Outstanding Winner. |
| 2016.04 | **Mathematical Contest in Modeling** Meritorious Winner. |