

CONTACT
INFORMATION

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EDUCATION

National University of Singapore, Singapore. 2023–2025(Expected)
◦ Master of Computing, Computer Science Specialization. GPA: 4.38/5.0
South China University of Technology (SCUT), Guangzhou, China. 2019–2023
◦ B.Eng., Software Engineering. GPA: 3.61/4.0

HONORS
AND
AWARDS

- **Outstanding Dissertation of South China University of Technology** 2023
- **Honorable Mention** Mathematical Contest in Modeling 2023
- **National Scholarship** 2022
- *Bronze Medal (46th)* ICPC Asia-East Continent Final 2022
- *Silver Medal (46th)* ICPC Asia JiNan Regional Contest 2021

PROJECT AND
INTERNSHIP
EXPERIENCE

- *Symmetric Matrix Solving Algorithm Parallel Optimization for ARM Architecture*
Mentor: Prof. Deyou TANG May-Dec. 2022
 - Implemente the subroutine of bounded Bunch-Kaufman algorithm and use openmp and NEON intrinsics to optimize parallelism and performance.
 - Modify the cache-hit rate and parallelism during column-swap part to achieve a 70% total performance improvement.
- *Research Assistant* in **Hong Kong University of Science and Technology, Guangzhou**
Mentor: Prof. Zeyi WEN Apr-Sept. 2023
 - Research on the Graph Partitioning Algorithm and fillin-reducing ordering algorithm.
 - Use omp task to optimize and parallel the graph partitioning algorithm.
- *Internship* in **SG Digital Trust Lab, Singapore Research Center, 2012 Laboratory**
Mentor: Dr. Tao HUANG Jan.-May. 2024(Expected)
Topic1: High Performance Symmetric Encryption Algorithm
Topic2: Efficient Model Stealing Defence

TECHNICAL
SKILLS

- *English*: IELTS(6.5), CET-4, CET-6.
- *familiar with*: C/C++, Fortran, p4-16, blas, openmp, mpi, pthread, cuda.
- *TestDemo Certificate*: C++, TOP 10%, LINUX, TOP 10%, PYTHON, TOP 10%.
- *Kaggle Certificate*: Data Visualization, Intro to Machine Learning, Intro to Deep Learning, Intro to Game AI and Reinforcement Learning.

EXCHANGE
EXPERIENCE

- **Online Academic Program on Machine Learning, McGill University** Jan.-Feb. 2022

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教育经历

新加坡国立大学, 新加坡 2023–2025(预计)
◦ 计算机科学硕士, 计算机科学方向. GPA: 4.38/5.0
华南理工大学, 广东省广州市 2019–2023
◦ 工学学士, 软件工程专业. GPA: 3.61/4.0

获奖荣誉

- 华南理工大学本科优秀毕业设计(论文) 2023
- 二等奖 美国大学生数学建模竞赛 (MCM/ICM) 2023
- 铜牌 第46届ICPC国际大学生程序设计竞赛亚洲区决赛 2022
- 国家奖学金 2022
- 银牌 第46届ICPC国际大学生程序设计竞赛(济南站) 2021

项目和实习经历

- 对称矩阵函数求解BBK算法的并行优化 2022/04–2022/12
单位: 华为鲲鹏计算 导师: 汤德佑教授
◦ 实现Bounded Bunch-Kaufman (BBK)算法, 利用NEON指令集和OpenMP进行优化。
◦ 对求解的行交换操作进行并行和访存局部性优化, 实现总体接口70%的性能提升。
- 科研助理 2023/04–2023/09
单位: 香港科技大学广州校区 导师: 文泽忆教授
◦ 开展图分割算法和填充减少排序算法的研究。
◦ 利用omp task对图分割算法进行并行优化。
- 实习生 2024/01–2024/05(预计)
单位: 华为2012实验室亚太研究院新加坡研究所数字信任实验室
导师: 黄涛博士
项目1: 高性能对称加密算法
项目2: 高效的模型窃取防御

专业技能

- 英语认证水平: CET-4, CET-6, IELTS(6.5).
- 编程技能: C/C++, Fortran, p4-16, blas, openmp, mpi, pthread, cuda.
- TestDemo 编程技能认证: C++, TOP 10%, LINUX, TOP 10%, PYTHON, TOP 10%
- Kaggle 课程认证: 数据可视化, 机器学习, 深度学习, 强化学习

交换经历

- 机器学习线上访学项目, 麦吉尔大学 2022/01–2022/02