

CONTACT  
INFORMATION

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Address: 09-01, West Coast Residential Village, 127371, Singapore



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
  - Optimize and parallel Bounded Bunch-Kaufman Algorithm for solving symmetric matrix based on ARM with NEON instruction set and openMP.
  - Optimize cache hit by column reordering in swap to achieve a 70% performance improvement.
- ***Research Assistant in Hong Kong University of Science and Technology, Guangzhou***  
Mentor: Prof. Zeyi WEN Apr-Sept. 2023
  - Research parallel graph partitioning algorithm and adapt it for fill-in reduction of sparse matrix.
  - Reconstruct a library of parallel graph partitioning with openMP task.
- ***Internship in SG Digital Trust Lab, Singapore Research Center, 2012 Laboratory***  
Mentor: Dr. Tao HUANG Jan.-May. 2024(Expected)  
Topic1: Research high-performance stream symmetric encryption algorithms through instruction optimization.  
Topic2: Survey on 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  
◦ 基于ARM NEON指令集和openMP对对称矩阵函数求解Bounded Bunch-Kaufman算法进行优化和并行。  
◦ 通过列重排序优化行交换中的缓存命中率, 实现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  
◦ 研究并行拓扑图分割算法并将其应用于稀疏矩阵的填充减少。  
◦ 重构并行图分割库, 使用openMP task实现并行。
- 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: 从指令集层面研究高性能对称流加密算法  
项目2: 调研高性能模型窃取保护方法

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