

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
  - 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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	领英: <a href="https://www.linkedin.com/in/han-chen-74784a233">linkedin.com/in/han-chen-74784a233</a>	
	Kaggle: <a href="https://www.kaggle.com/conccyclics">www.kaggle.com/conccyclics</a>	
	地址: 新加坡 West Coast Residential Village 09-01 127371	
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
项目和实习经历	• 银牌 第46届ICPC国际大学生程序设计竞赛(济南站)	2021
	• 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。	
专业技能	◦ 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。	
交换经历	• 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	
交换经历	• 机器学习线上访学项目, 麦吉尔大学	2022/01–2022/02