CHEN Han

CONTACT INFORMATION

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Github:www.github.com/Concyclics

Kaggle:www.kaggle.com/concyclics

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

EDUCATION

National University of Singapore, Singapore.   2023–2025(Expected)
- Master of Computing, Computer Science Specialization.

South China University of Technology (SCUT), Guangzhou, China.   2019–2023
- B.Eng., Software Engineering.

Fuzhou NO.3 High School, Fuzhou, China.   2016–2019

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: 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: Zeyi WEN   Apr-Sept. 2023
  - Research on the Graph Partitioning Algorithm and fillin-reducing ordering algorithm.
  - Use omp task to optimize the graph partitioning algorithm.

- ***Student Intern*** in **Applied Crypto Team, SG Digital Trust Lab**
  Mentor: Huang Tao   Jan.-May. 2024(Expected)

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
  - Learned basic machine learning techniques and data analysis skill.
  - Participated in competitions on Kaggle, e.g., image classification using CNN , English text classification using RNN, etc.
  - Composed a proposal about the data analysis of consumption habits.

陈涵	最近更新: 十二月 19, 2023

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地址: 新加坡West Coast Residental Village 09-01 127371

教育经历

新加坡国立大学, 计算机科学硕士, 新加坡.		2023–2025(预计)
华南理工大学, 软件工程学士, 广东省广州市.		2019–2023
福建省福州第三中学, 福建省福州市.		2016–2019

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
  - 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
  - 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实验室新加坡研究所数字信任实验室

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
  - 学习机器学习的基本理论和算法。
  - 在Kaggle上完成了关于利用CNN进行图像分类和利用RNN进行文本分类的两个练习赛。
  - 进行了关于消费习惯的数据分析和建模，并撰写报告答辩。