

# ZHAOYANG HONG

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https://hfhongzy.github.io/

EDUCATION	<p><b>Turing Honor Class, Southern University of Science and Technology (SUSTech)</b> Shenzhen, China</p> <p><i>B.E. in Computer Science and Technology</i> <span style="float: right;">2022 - 2026</span></p> <ul style="list-style-type: none"><li>• Advisor: <b>Prof. Bo Tang</b></li><li>• GPA: 3.91/4.00</li><li>• Selected Honors Coursework (All A+): Computer Architecture, Operating Systems, Digital Logic, Mathematical Logic, Data Structures and Algorithm Analysis, Algorithm Design and Analysis, Java Programming</li></ul>
PUBLICATIONS	<ol style="list-style-type: none"><li>1. Yangshen Deng, Shiwen Chen, <b>Zhaoyang Hong</b>, Bo Tang. <u>How Does Software Prefetching Work on GPU Query Processing?</u> <i>20th International Workshop on Data Management on New Hardware (DaMoN), affiliated with SIGMOD</i>, Santiago, Chile, June 2024.</li><li>2. Yangshen Deng, Zhengxin You, Long Xiang, Qilong Li, Peiqi Yuan, <b>Zhaoyang Hong</b>, Yitao Zheng, Wanting Li, Runzhong Li, Haotian Liu, Kyriakos Mouratidis, Man Lung Yiu, Huan Li, Qiaomu Shen, Rui Mao, Bo Tang. <u>AlayaDB: The Data Foundation for Efficient and Effective Long-Context LLM Inference</u> <i>Proceedings of the ACM Conference on Management of Data (SIGMOD, Industry Track)</i>, Berlin, Germany, June 2025.</li></ol>
RESEARCH INTERNSHIPS	<p><b>University of Michigan</b>   Ann Arbor, U.S. <span style="float: right;">Feb 2025 – Aug 2025</span></p> <ul style="list-style-type: none"><li>• Advisor: <b>Prof. Lin Ma</b>.</li><li>• Also work closely with <b>Prof. Nishil Talati</b> and <b>Prof. Barzan Mozafari</b>.</li><li>• Topic: GPU-accelerated Databases</li></ul>
SELECTED AWARDS	<ul style="list-style-type: none"><li>• 47th International Collegiate Programming Contest (ICPC) <b>World Finalist</b> <span style="float: right;">Nov 2022</span></li><li>• 9th China Collegiate Programming Contest (CCPC) Regional <b>2nd runner-up</b> <span style="float: right;">Oct 2023</span></li><li>• 2024 SIGMOD Programming Contest <b>World Finalist</b> <span style="float: right;">Apr 2024</span></li></ul>
SELECTED PROJECTS	<p><b>AlayaBox Development @ AlayaDB.AI</b> <i>Developed and maintained the user management module of AlayaBox</i></p> <p><b>MSCCL++ (Microsoft Collective Communication Library) Contribution</b> <i>Integrated the <u>Vortex</u> concept (CPU–multi-GPU I/O scheduling) into MSCCL++ codebase. The contribution was supported by Microsoft and completed during my internship at the University of Michigan. The pull request is currently under review.</i></p>
SERVICES	<ul style="list-style-type: none"><li>• Lecturer*, Computing Olympiad Course @ X-Camp Academy <span style="float: right;">2024-2025</span></li><li>• Teaching Assistant*, CS203 Data Structures and Algorithm Analysis <span style="float: right;">Fall 2024</span> * Conducted in English.</li><li>• Teaching Assistant, CS109 Introduction to Java Programming <span style="float: right;">Spring 2024</span></li><li>• Student Coach, SUSTech Programming Competition Team <span style="float: right;">2023</span></li><li>• Problem Setter and Organizer, SUSTech Programming Competition (On-Site) <span style="float: right;">2023</span></li><li>• Certified Junior First Aid Responder, Red Cross Society of China <span style="float: right;">Fall 2025</span></li></ul>
ENGLISH PROFICIENCY	<p>TOEFL iBT 103 (R30, L27, S24, W22)</p> <p>Proficient in delivering presentations and lectures</p>