

Haozhou Xu

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EDUCATION

University of Hong Kong <i>Bachelor of Engineering</i> (Major in <i>Computer Science</i> , Minor in <i>Statistics</i>) ✧ CGPA: 3.75/4.30 (3.9 in CS major, 3.98 in Statistics minor)	Hong Kong Sep 2020 – Jun 2024
University of Waterloo <i>Exchange at Faculty of Mathematics</i> ✧ CGPA: 93/100 (A+)	Waterloo, Canada Jan 2023 – Apr 2023

RESEARCH & WORK EXPERIENCE

Computer Architecture & System Research Lab@HKU Research Assistant <i>Co-supervised by Prof. Eric Schuldenfrei and Prof. Hayden So</i> ✧ Analyzed the Hong Kong COVID-19 outbreak building conditions and human mobility patterns. ✧ Constructed a sensor-based system that captures Bluetooth signals from devices, combined with fingerprints and machine-learning models to track human behavior patterns within buildings. ✧ Enhanced disease prevention strategies, enabling real-time monitoring and device clustering.	Hong Kong Sep 2023 – Present
University of Hong Kong Research Assistant <i>Supervised by Dr. Hengshuang Zhao</i> ✧ Explored methods for enhancing 3D perception in various computer vision applications. ✧ Modified Open3D, CUDA libraries, and integrated DinoV2 for efficient 2D feature extraction. ✧ Evaluated by the ScanNet dataset, showcasing the benefits of specific features for 3D perception.	Hong Kong Apr 2023 – Present
AsiaInfo Technology Software Engineer & Analyst ✧ Developed and designed a customer information management system for a Fortune 500 company. ✧ Involved in Java web development, high-frequency handling and customer behaviour analysis.	Nanjing, China May 2022 – Aug 2022

COMPETITIONS & PROJECTS

CASH Algo Trading Challenge 2023 (Global) ✧ Performed auto-trading, analyzed financial data and combined R-Breaker with ML models. ✧ Conducted real-time simulations and optimization, won the 1 st in competition.	Hong Kong
Kaggle Competitions ✧ Conducted statistical analysis, feature engineering, and machine learning implementations. ✧ Achieved 67/4821, 1/42 and 2/42 in House Price, ICU time and Mortality Rate Competitions.	UWaterloo & HKU
Low-level image classification Project ✧ Investigated CNN components and variation models to enhance low-level image classification.	HKU
Soccer Bot Project ✧ Took on key responsibilities in Designing, programming, laser-cutting, and assembling the bot. ✧ Secured first place in the soccer competition and showcased the project.	HKU

EXTRACURRICULAR ACTIVITIES

Teaching Assistant Hosted the tutorial sessions of the introductory programming course.	HKU Sep 2022 – Present
Library Volunteer Participated in library book management activities	Kunming, China Jul 2021

HONORS

Best Strategy Design Award of Cash Algo Challenge 2023	2023
Rosita King Ho Scholarship	2023
Dean's Honours List	2021
HKU Inno Show 2021	2021
Outstanding Student Base School Scholarship of China Agricultural University	2020

PUBLICATIONS

PIBS: A Multi-modal Sensor Node for Pervasive Intelligent Building Sensing (IEEE submitted)	2024
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SKILLS

- ✧ **Computer:** C/C++, Java, Python, NodeJS/React/XML, MySQL/OracleDB, Machine Learning tools.
- ✧ **Others:** Wolfram, R, MATLAB, SolidWorks