CHOI, Long-ho Happy

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 lhchoihappy

EDUCATION

The Hong Kong University of Science and Technology (HKUST) *Sept 2023 – Present*
Bachelor's Degree in Engineering, major in Computer Science (with an Extended Major in Artificial Intelligence)

- GPA: 3.017/4.3
- Minor in Mathematics
- Minor in Big Data Technology

Tin Ka Ping Secondary School *Sept 2017 – June 2023*

- 2023 HKDSE:
  - 5* in Mathematics (Compulsory Part), 5* in Mathematics (Extended Part Module 2), 5 in Physics, 5 in Chemistry, 5 in Liberal Studies

PROJECT EXPERIENCE

Heat Index Estimation (2025 Summer UROP project) *June 2025 - Aug 2025*
Supervised by Prof. FUNG, Jimmy Chi Hung, and
co-supervised by Dr. CHAN, Jimmy Wai Man

- Predicting localized temperature exposure across different times and locations using a Sky-View Factor approach
- Handling multi-source geospatial data (e.g. 3D building morphology, building shadows) and microclimate parameters (e.g. solar radiation, temperature) by using QGIS, CSDI portal, Open3Dhk, Overpass Turbo, etc

Heat Index Estimation (2025 Fall UROP project) *Sep 2025 - Dec 2025*
Supervised by Prof. FUNG, Jimmy Chi Hung, and
co-supervised by Dr. CHAN, Jimmy Wai Man

- Develop a hourly spatial map integrating the sunshine minutes of the building shadow and the solar irradiance in different points by using some radiation and building-shadow modules
- Handling building shadows of different building morphologies, solar irradiance, and the extraction of the HK map

An IT admin of a website from my class in high school *July 2023 – Present*

- Create some detailed, with some step-by-step guidance user-manual for telling how other students can create their own blogs, upload photos or others on the class website
- Doing regulations on monitoring and addressing offensive or illegal content in order to ensure a safe user environment for my classmates and teachers

INTERNSHIP EXPERIENCE

AI Programmer *Hong Kong, China*
Centre for Intelligent Multidimensional Data Analytics Limited *June 2025 – Aug 2025*

- Collaborate with senior engineers to work on some new web development projects (i.e. CV system for engineers)
- Working on backend development using PostgreSQL and writing several APIs for the React Native frontend using JavaScript, Node.js, etc

COURSE HIGHLIGHT

- Artificial Intelligence (Python)
- Object-Oriented Programming (C++)
- Machine Learning
- Reinforcement Learning
- Software Engineering (Java)
- Web Development (PostgreSQL, JavaScript, Node.js, React Native)
- Design and Analysis of Algorithms
- Data Structure
- Statistics (both parametric and nonparametric) (R)
- Probability
- Operating Systems (Linux)
- Honor Discrete Mathematics
- Computer Organizations
- Design Thinking

SOFT SKILLS

Time Management
- Always be punctual, attend the meeting on time and even before 10 minutes
- Not a deadline fighter, always finish the task several days before the deadline

Organizational
- Proficient in organizing workloads, and prioritizing tasks by making good use of daily planning tools, optimizing productivity across different tasks and responsibility
- Utilizes effective organizational methods to enhance overall performance and efficiency on different tasks or projects

Proactive Self-learn
- Proactively finished several courses on Coursera and Kaggle during my spare time
- Actively learn various programming languages required (e.g. SQL, JavaScript, Node.js, . . .) for the internship on the Internet before the internship period, and also during the night after daily work

Open to Criticism
- Embrace feedback as an opportunity to make improvement and take these feedback seriously
- Actively listen to constructive criticism and integrate it to enhance performance
- Follow instructions from supervisors and actively demonstrate a willingness to learn from critiques

AWARDS AND RECOGNITIONS

Dean of Engineering Scholarship for the Year 2023 (received from HKUST) *Nov 2023*

- In recognition of the excellent academic achievement in the Hong Kong Diploma of Secondary Education Examination

Outstanding TKPSS Graduate Award (received from Tin Ka Ping Foundation) *Nov 2023*
- In recognition and appreciation of the remarkable academic achievement in HKDSE

ENRICHMENT ACTIVITIES AND LEADERSHIP ROLES

Tin Ka Ping Secondary School F.5 Mathematics (Extended Part Module 2) Enhancement Class Tutor *Feb 2025 - May 2025*

- Prepare course outlines, handouts, and review and provide feedback on the coursework for 23 participating students who are taking M2 as one of their elective subjects in HKDSE
- Deliver a total of 7 tutorials for the high school students based on the course materials prepared

Tutor of the Revision Class for Special Education Needs (SEN) students   *Apr 2024 - May 2024*
- Giving academic support and guidance to the SEN students

Tin Ka Ping Secondary School F.6 Chemistry Enhancement Class Tutor   *Oct 2023 - Feb 2024*
- Prepare course outlines, handouts, and review and provide feedback on the coursework for 1-2 participating students who are taking Chemistry as one of their elective subjects in HKDSE
- Deliver a total of 10 tutorials for the high school students based on the course materials prepared