CHAU Kin Yi, Joey

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EDUCATION

The Chinese University of Hong Kong (CUHK)   Sep 2021 – Jun 2025 (Expected)
BSc in Computer Science   *Hong Kong*
- **GPA**: 3.80 / 4.00 | ELITE Stream (Sep 2021 – Present)
- **Relevant Courses**: Problem Solving By Programming, Data Structures, Fundamentals of Machine Learning, Introduction to Database Systems, Software Engineering, Foundations of Applied Deep Learning, Open-source Software Project Development
- **Activities:** ICPC Team Member (2024-25), PwC's HackaDay 2022 Capture the Flag competition

Northeastern University (NEU)   Sep 2023 – Dec 2023
Exchange Program, Computer Science   *Boston, US*
- **GPA**: 4.00 / 4.00
- **Relevant Courses**: Algorithms & Data, Computer Systems, Theory of Computation, Graph Theory

AWARDS AND HONORS

Bronze Medal, The 49th ICPC Asia Kunming Regional Contest	Dec 2024
Dean's List	2021-22, 2022-23, Fall 2023
Bronze Award for Outstanding Academic Performance	2022-23
ELITE Stream Scholarship	2021-22, 2022-23

PROFESSIONAL EXPERIENCE

Undergraduate Summer Research Intern   Jun 2023 – Aug 2023
Faculty of Engineering, CUHK | Supervisor: Prof. James Cheng   *Hong Kong*
- Conducted thorough literature reviews on aligning large language models for recommendation tasks.
- Experimented with weight ensembling techniques on LLM-based recommender systems.
- Concisely presented research findings through a report and a poster presentation.

PROJECTS

NoteAI *(Course project - Open-source Software Project Development)*   Spring 2024
- Individually developed a simple desktop application for AI-powered markdown note-taking with *Electron* and *React*.
- Leveraged LLM and RAG to enhance the note-taking experience by allowing users to chat with their notes, utilizing *LangChain* and *Ollama* for implementation.

Online Shopping Mall System *(Course project - Software Engineering)*   Spring 2024
- Collaborated with 4 other students to build an online shopping application, allowing users to search for products, add products to their cart, and make purchases.
- Mainly contributed to the back-end development with Node.js, Express, and MySQL, supporting Product Management System, Recommendation System, and Order Review System.

Face Stylization via StyleGAN Distillation *(Course project - Foundations of Applied Deep Learning)*   Spring 2024
- Individually developed generative adversarial networks for turning real human faces into cartoon and anime style by distilling the *StyleGAN* models into more lightweight *pix2pixHD* models.
- Leveraged the strong image generation ability of *StyleGAN* and solved the problem of computationally demanding image translation of a *StyleGAN* model by distilling it to a *pix2pixHD* model.

2048 and AI *(Course project - Problem Solving By Programming)*   Fall 2021
- Independently created a command-line interface program for the game "2048" in *C*.
- Adequately designed and implemented a 2048 AI using the *expectimax* algorithm, resulting in a 99% chance of getting a tile of 2048 or above and achieving top 1 performance in class.

SKILLS

Programming Languages: Python, C, C++, Java, JavaScript, SQL
Libraries: PyTorch, panda, Matplotlib (Novice), NumPy, TensorFlow, Node.js, Express, React, Electron
Software: Linux, Git, LaTeX, Docker
Languages: Cantonese, Mandarin, English, Japanese