

Yifei SONG

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EDUCATION

Chinese University of Hong Kong

B.Eng in Information Engineering, M GPA 3.83/4

Hong Kong

Sep 2021 - present (class 2025)

École Polytechnique Fédérale de Lausanne

Exchange student in School of Computer and Communication Sciences

Lausanne

Feb 2024 - present

TECHNICAL SKILLS

Programming Languages: Python, C++, C#.NET, JavaScript, SQL

Libraries and Tools: PyTorch, Pandas, Numpy, OpenCV, Git

ACADEMIC PROJECTS

Summer research: Enhancing video conferencing with generative model

Chinese University of Hong Kong

Jun 2023 - Sep 2023

- Modified the video conferencing network with generative model and segmentation model
- Applied VQGAN model and YOLOv3 model to the video conferencing network to improve the transmission quality and resolve the freezing problem
- gained experience of programming with Pytorch and network simulation

Course project: Building Website with MongoDB

Chinese University of Hong Kong

Oct 2023 - Dec 2023

- Built up the database for events, users and administer
- Developed a MongoDB-based website for events searching and commenting, which enables the users to search the events by filters, mark the favourites, and add comments
- Developed a separate access for administer, which enables the administer to manage the location information and the users

Semester Project: Protecting privacy with federated generative models

École Polytechnique Fédérale de Lausanne

Feb 2023 - present

- Compared different metrics of quantifying privacy infringement in generative models
- Trained a stable diffusion model, and incorporated basic differential privacy model and Near-Access-Free model

EXTRACURRICULAR ACTIVITIES

- **Player in Women's Mainland Undergraduate Association Basketball Team (WMUA)**, Won the third place in Hong Kong Mainland Undergraduate Basketball Competition (Apr 2023)
- **Group Leader in Mainland Orientation Camp**, Organized face to face ice breaking activities; Help the freshmen with course registration, hostel check in to prepare them for upcoming school life

HONORS AND AWARDS

Dean's List

GPA 3.5+, top 10%

Department of Engineering, CUHK

2022-2023

Clement Ho Ming De Xin Min Alumni Scholarship

GPA 3.7+

United College, CUHK

2022-2023

LANGUAGES

- **Putonghua, Cantonese:** Mother language
- **English:** Fluent
- **French:** A little bit