

# Cheung Ka Fai, Cyrus

5400 8319 | [cyrus.cheungkf@gmail.com](mailto:cyrus.cheungkf@gmail.com) | [linkedin.com/in/cyrus-cheungkf/](https://linkedin.com/in/cyrus-cheungkf/) | [github.com/KaFaiFai](https://github.com/KaFaiFai)

## EDUCATION

---

### The University of Hong Kong

Sep 2019 – Aug 2023

*Bachelor of Arts and Science (Applied AI)*

*CGPA 3.38*

- Bronze award recipient in the EEG & AI competition hosted by the Faculty of Education
- Explored advanced topics in machine learning, including deep learning architectures and model selection methods
- Proficient in implementing various machine learning algorithms using Python with PyTorch

## EXPERIENCE

---

### Castco Testing Centre Limited

Sep 2023 – Present

*AI Programmer*

- Designed and developed AI Chatbot application with Flutter, which encompasses mobile and web compatibility and supports text and voice messages, to automate customer services
- Created a Jetpack Compose smartwatch app with real-time health data and location services for clients in the construction industry
- Developed PyQt tool to enhance document handling efficiency by 50% using Google Cloud Platform
- Collaborated as a member of a 6-person team to develop item detection software capable of detecting and matching 50 items in under 3 seconds

### PONS.ai

May 2022 – Aug 2022

*AI Engineer Intern*

- Conducted research on state-of-the-art generative AI models and techniques for image style transfer
- Optimized the AI pipeline by incorporating traditional algorithms and neural networks, resulting in a 2/3 reduction in inference time
- Contributed to the entire development cycle, including data collection, image preprocessing, and experimentation with different approaches using StyleGAN

## PROJECTS

---

### Improving training algorithms | *Research, Python, Pytorch*

Sep 2022 – May 2023

- Researched on novel optimization ideas to improve the generalization ability of Adam-like optimizers
- Conducted extensive reviews of the latest improvements and their theoretical foundations in computer vision, which inspired our original improvements
- Carried out more than 100 experiments on various CNN architectures and optimizers to demonstrate the faster convergence and improved generalization ability of our optimizer

### AI Phone Agent | *Python, Twilio, OpenAI, TTS, LangChain, Flask*

Jan 2023 – May 2023

- Developed an AI phone answering agent utilizing Natural Language Processing (NLP) techniques and Large Language Model (LLM)
- Capable of answering user queries and engaging in dynamic conversations, while ensuring seamless transcription and support for human-like voices in multiple languages
- Accelerated information retrieval and chat generation time to less than a second
- Effectively regulate the agent's behaviors and ensure up-to-date and accurate information delivery by designing an optimal prompt

## TECHNICAL SKILLS

---

**Languages:** Python, Kotlin, Dart

**Frameworks:** Pytorch, Flutter, Jetpack Compose

**Libraries:** LangChain, NumPy, Matplotlib, spaCy

**Developer Tools:** Git, Amazon Web Services, Google Cloud Platform, Twilio