

# YING WAI (NAOMI) CHOY

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## EDUCATION

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### University of Surrey

*Feb 2023 - Feb 2024*

Master of Science in Computer Vision, Robotics and Machine Learning

Grade: Distinction

Relevant modules: Advanced Computer Vision, Applied ML, AI, Speech Processing, IoT

### The University of Hong Kong

*Sep 2016 - Jun 2021*

Bachelor of Engineering in Computer Engineering

Relevant modules: Database, Algorithms, Networks, Operating Systems, Embedded Systems, Cyber Security

## TECHNICAL SKILLS

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**Programming:** Python, C++/C, Linux, JavaScript, MATLAB, Java  
**Software & Tools:** **Machine Learning:** Pytorch, Tensorflow, OpenCV  
**Database:** SQL, MongoDB, Pandas, Firebase (GCP)  
**BackEnd:** FastAPI, Node.js, NGINX  
**Version Control:** Git, SVN

## WORK EXPERIENCE

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### Software Engineer

*Sep 2022 - Jan 2023*

*Rivermap Company Limited - Part Time*

- Compiled a PDF table extraction tool for text and image based, bordered and non-bordered tables file with Chinese characters.
- Built and Optimised several web scrapers with asyncio and by-passing proxy block, reducing run time from few hours to within 5 minutes.

### Software Engineer

*Jul 2021 - Aug 2022*

*Roborn Technology Limited - Full Time*

- Built object detection and classification video analytics solutions for clients with YOLOv5.
- Trained models with custom image datasets provided by client and fine tuned parameters.
- Designed, built and deployed a smart hotel Internet-of-Things back end system with FastAPI and MongoDB on a cloud virtual machine.
- Collaborated with IMEC on a mmWave wave radar fall detection device
- Built an interactive demo on Ultrahaptics hand gesture device with Unity C#.
- Other ad-hoc tasks, including maintenance, server setup, automated testing scripts.

### System Engineering Intern

*Jun 2019 - Jun 2020*

*ASM Technology Hong Kong - Full Time - Work placement as part of Bachelor's degree*

Built a chatbot handling internal FAQs using Google's Dialogflow and cloud platform:

- Designed the use cases and database
- Convert SQL database into NoSQL documents
- Designed and implemented the algorithm of a recommendation agent

### Internship

*Hong Kong SAR Government*

*Jul 2018 - Aug 2018*

- Individual technical study on training object classification models with different hardware accelerated computing platforms in Tensorflow C++ and Python.

## AWARDS AND EXTRA-CIRRICULARS

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- Joint 2nd Place in Hong Kong Institute of Engineers Young Engineers Programme 2018-2019
- Executive Committee of Hong Kong University Student's Union Choir 2017-2018
- Class representative 2020-2021 (Computer Engineering, HKU)
- Member of Fencing club (Varsity team) and Chamber Choir at University of Surrey
- Member of Hong Kong University's Women's Football Team 2019-2020