

YING WAI (NAOMI) CHOY

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EDUCATION

University of Surrey Master of Science in Computer Vision, Robotics and Machine Learning Relevant modules: Advanced Computer Vision, Applied ML, AI, Speech Processing, IoT	<i>Feb 2023 - Feb 2024</i> Grade: Distinction
The University of Hong Kong Bachelor of Engineering in Computer Engineering Relevant modules: Database, Algorithms, Networks, Operating Systems, Embedded Systems, Cyber Security	<i>Sep 2016 - Jun 2021</i>

TECHNICAL SKILLS

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

Software Engineer <i>Rivermap Company Limited - Part Time</i>	<i>Sep 2022 - Jan 2023</i>
- 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 <i>Roborn Technology Limited - Full Time</i>	<i>Jul 2021 - Aug 2022</i>
- 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 <i>ASM Technology Hong Kong - Full Time - Work placement as part of Bachelor's degree</i>	<i>Jun 2019 - Jun 2020</i>
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 <i>Hong Kong SAR Government</i>	<i>Jul 2018 - Aug 2018</i>
- Individual technical study on training object classification models with different hardware accelerated computing platforms in Tensorflow C++ and Python.	

AWARDS AND EXTRA-CIRCULARS

- 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