

AU Tsz Nga, Emily

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Education

The Chinese University of Hong Kong (CUHK),

Sep 2018 – May 2022

Bachelor of Science in Mathematics (Computational Big Data Analytics Stream)

Minor in Computer Science

Upper Second Class Honours (CGPA: 3.403/4.000)

The Hong Kong Polytechnic University (PolyU),

Sep 2017 – May 2018

Higher Diploma in Electronic and Information Engineering

Completed the first year of study (with Dean's List in 17/18 and CGPA: 3.94/4.00)

Research Project Experience

Capstone Course – Seminar in Image Processing, Department of Mathematics, CUHK

Sep 2021 – Dec 2021

- Studied and modified CV model in image processing to improve its accuracy
- Gave presentations on CV model in the class

**Student Researcher, Undergraduate Research Opportunity Program (UROP),
Department of Mathematics, CUHK**

Jan 2021 – Aug 2021

- Developed a neural network to solve numerical problems about fluid dynamics under the supervision of Prof. Eric T. Chung
- Awarded silver team award for presentation in UROP workshop

Employment History

Data Engineer, EY Mtel Solutions Limited

Aug 2022 – Present

- Perform data extract, transform and load (ETL) Process by Azure Data Factory
- Manage database and write SQL stored procedure
- Develop a web application for clients to manage their products and do price forecasting

Part-time I.T. Intern, AritaOne Software Limited

Jul 2020 – May 2022

- Built Machine learning model for horse racing prediction
- Verified and analyzed data in the database
- Performed code review and wrote code documentation
- Developed a website for companies to manage their products and internal problems

Extra-Curricular Activities

Financial Secretary, The Mathematics Society, the Student Union of CUHK

Jan 2019 – Dec 2019

- Prepared budget reports and financial reports for the society
- Received and recorded all the transactions in the society

Skills:

Computer Skills:

- Proficient with SQL, Python and packages related to machine learning, e.g. scikit-learn, pandas and TensorFlow etc.
- Competent with C++, JAVA (for Android App Development) and MATLAB
- Familiar with HTML5 / CSS / JavaScript (Node.js and React.js)

Languages: Native Chinese, Conversational Mandarin, Fluent English