

# Kai Yuan Cheng

Computer Science, [Natural Central University](#) 2021 - Present



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Research Assistant, [NCU](#), National Central University/CS Nov 2021 - Present

Python、Tesseract、NLP、AWS

- At the pre-processing stage, we extract the text from PDF about ESG information.
- Using Bert model to find some articles about ESG Key issues.
- Built ESG ontology using LDA topic model. (ongoing)

Research Assistant, [CGU](#), Chang Gung University/IM Nov 2020 - Present

Python、Kafka、FHIR、PostgreSQL

- Built distributed message queue with Kafka to collect medical sensor data, and created producer/consumer using python.
- Built FHIR to store medical data and use HAPI API to implement CRUD.

Python、Opencv、Tesseract

- Find at-risked patients by detecting vascular wall diameter with OpenCV.
- Collecting text on medical images using Tesseract (OCR recognition)

Software Engineer Intern, [Ctbc](#), Feb 2020 - Jun 2020

Cobol、JCL、zOS3270

- JCL is a script language work on IBM mainframe os.
- Integrate various transaction data to generate custom reports using Cobol.

## SIDE PROJECTS AND HOBBIES

### Relationship between students' course selection mode and grades

Python、Spark

- Analyze the correlation between course grades and subsequent course performance.

### Stock prediction by Event-Driven Techniques

Python、StanfordCoreNLP

- The correlation between some articles about COVID-19 and the gain of stocks, and explored the impact on the stock market.

### Volunteer-match platform

Javascript、Nodejs、ReactNative、MongoDB、Firebase

- With the concept of time banking, creating a service matching platform using ReactNative.