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| Kai Yuan Cheng  Computer Science, [Natural Central University](https://www.ncu.edu.tw/tw/index.html) 2021 - Present | [linkedin.com/in/凱元-鄭-873b43199/](https://www.linkedin.com/in/%E5%87%B1%E5%85%83-%E9%84%AD-873b43199/) |
| [github.com/B0544218/Portfolio](http://github.com/B0544218/Portfolio) |
| pizzahot66@gmail.com |
| +886 (09) 0556-7591 |

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## Research Assistant, [NCU](http://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](https://im.cgu.edu.tw/)*,* 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](https://www.ctbcbank.com/twrbo/zh_tw/index.html), 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.