CHIA-YU,CHU

NTUNHS-MASTER OF INFORMATION MANAGEMENT

CONTACT

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EDUCATION

Bachelor

National Taipei University of Nursing and Health Sciences

Department of Information Management

SKILLS

- Python
- MS-SQL
- HTML/CSS/Javascript
- SPSS/SAS/R
- Android Studio

ABOUT ME

I am National Taipei University of Nursing and Health Sciences with a Master's degree in Information Management . I have a calm and meticulous personality, with a passion for learning new things.

EXPERIENCE

During my spare time at National Taipei University of Nursing and Health Sciences, I have accomplished the following projects:

1.I began my service at the **Department of Biomedical Engineering at Taipei Veterans General Hospital** in August this year, serving as a contract medical administration team member.

2.During the summer of my third year in college, I participated in the *Summer Internship Program in Health Care Management organized by the National Taipei University of Nursing and Health Sciences*.

3.In collaboration on the university project **"Establishment of a Personal Health Data Management Platform in Compliance with FHIR Format using Blockchain Encryption Mechanism**," I worked with my peers to develop an application that not only protects personal health data and enables individuals to manage their health, but also complies with the international standard FHIR format for seamless data interoperability in the future.

LANGUAGE

English ▐▐▐▐▐▐▐

TOEIC
Score:695

CERTIFICATE

Medical Information Manager

TQC E-commerce Overview - Professional Level

Level B Digital Electronics Technician

I graduated from National Taipei University of Nursing and Health Sciences with a Bachelor's degree in Information Management. Currently, I am pursuing a Master's degree in Information Management at the same university. I am a calm, meticulous, and cautious student who is passionate about learning new things. In my academic background, I have been exposed to various fields, including Programming: Python, C++, and Java. Web design: HTML, CSS, and Javascript. Data analysis: SPSS, SAS, and R. Management and business courses: Introduction to Management and Business, Statistics, Accounting. Healthcare informatics: Fast Healthcare Interoperability Resources (FHIR), Digital Imaging and Communications in Medicine (DICOM), healthcare management, healthcare information management.

During my university years, I actively participated in the development of several projects, including designing and developing the front-end and back-end of personal websites and predictive models for deep learning of lung images. However, my proudest achievement was the implementation of my university project titled "Establishment of a Personal Health Data Management Platform in Compliance with FHIR Format using Blockchain Encryption Mechanism." In this project, I was responsible for database development, application programming, API writing, and user interface design. I used Android Studio for page design and flow control, and programming languages such as Kotlin and Java. This project won the second prize in the Systems Group.

Furthermore, during the summer of 2021, I had the opportunity to participate in the Health Care Management Internship Program organized by the National Taipei University of Nursing and Health Sciences. This internship experience brought me valuable insights. I gained in-depth knowledge of healthcare information standards such as DICOM and FHIR and further explored healthcare-related issues. Additionally, I learned to address healthcare problems using programming languages, such as sentiment analysis in natural language processing and multiple linear regression analysis for Covid-19.

This summer, I worked at Taipei Veterans General Hospital in the Department of Biomedical Engineering, specifically in the Equipment and Instrument Management Division. My responsibilities included medical equipment maintenance, acceptance, procurement evaluation (including joint tenders with other veterans hospitals), assessment of equipment for retirement, and management of maintenance contracts. The departments under my responsibility include the Department of Medical Research, the Medical Technology Building, and the Traditional Medicine Center. Additionally, I manage the hospital's Intelligent Logistics Management System, which primarily oversees the maintenance of medical equipment by various units and vendors, and manages the electrical usage of medical equipment throughout the hospital. Although this job is not directly related to my field of expertise, it has allowed me to witness the many challenges faced by hospitals. How to effectively manage medical equipment? From large equipment like linear accelerators, CT scanners, and MRIs to surgical forceps, scissors, and clamps, all instruments need maintenance, management, and upkeep. Some equipment cannot have spares readily available. What if the emergency room CT suddenly breaks down? How can we renovate the Supply Center specialized in surgical instruments to be more intelligent and automated? These two issues may pose risks of clinical interruption, and for a hospital to progress, reform is necessary. Another issue is the storage of wheelchairs in the hospital. Wheelchairs are provided free of charge for patients and their families to use. However, what issues might this cause? Perhaps when a patient is being discharged and needs to go to the underground parking lot to get into a car, the wheelchair is left in the parking lot and not pushed back to the wheelchair storage area. Alternatively, the wheelchair might be taken home directly. How can we manage wheelchairs effectively and make their management intelligent? These are practical and worth exploring.

I firmly believe that information technology and healthcare are two fields filled with unlimited potential and innovation. I am passionate about their integration and aspire to apply my knowledge and skills to real-life situations, making meaningful contributions to society.