

Benedict Tiong

Curriculum Vitae



PERSONAL DETAILS

Mail **benedict.cs12@nycu.edu.tw**

Website **<https://benedict-cs.github.io/Me/>**

EDUCATION

MSc. Department of Computer Science (GPA: 4.15 / 4.30)

2023 - Now

National Yang Ming Chiao Tung University

Advisor: Prof. Chien-Chao Tseng (Wireless Internet Laboratory)

- Kubernetes, CI/CD, DevOps, and Cloud-Native Technologies
- SDN, NFV, O-RAN, 5G/6G Networks

BSc. Department of Interaction Design (GPA: 3.99 / 4.00)

2019 - 2023

National Taipei University of Technology

Advisor: Prof. Lydia Hsiao-Mei Lin

- Docker, Backend Service Development, RESTful API
- Application of Embedded Systems, Application of AI, IoT System
 - Virtual Reality, Augmented Reality, Game Development

RESEARCH INTERESTS

- Linux Networking, IT Automation, Kubernetes, CI/CD, DevOps, and Cloud-Native
- Operating System Design and Implementation, Computer Architecture, Computer System

WORK EXPERIENCES

SDN&NFV Teaching Assistant · Part-time · On-site

Aug 2023 - Jan 2024

Department of Computer Science, NYCU

- Virtual Infrastructure and Management - Container and Kubernetes
- SDN, NFV, ONOS, OVS, Java, Python

Software Engineer · Intern · Hybrid

Jul 2022 - Jun 2023

IT Department, Makalot Industrial Co., Ltd.

- Develop a Robust Backend System and Automate the Service
- ASP.NET Core, Vue.js, SQL Server, Docker, Graph API, Power Automate

Administration Assistan · Part-time · On-site

Jun 2021 - Jun 2023

Computer and Network Center, NTUT

- Assist faculty and students with troubleshooting computer and network issues
- Reinstall the operating system on a computer

Project Engineer · Part-time · Hybrid

Jan 2022 - Jun 2022

Department of Multimedia and Game Development, MUST

- Integrating the Digital Kinesthetic Teaching Model into Parent-Child Centers
- Game Development, Unity, C#, Firebase

AWARDS & PROJECTS

Potential Award of XR Social Welfare Development in Vision Get Wild - 2023

Issued by Meta XR Hub Taiwan

Developed and designed an Augmented Reality (AR) mobile app to monitor all critical manhole covers in Taipei City. The system, which integrates captivating images with local flair, encourages people to collaboratively track the aging issues of these covers and provide real-time feedback to the responsible authorities.

Shortlisted Cross-Disciplinary category in Vision Get Wild - 2023

Issued by Administration for Digital Industries

A mobile app that combines tourism, cultural promotion, and urban maintenance through the innovative use of Augmented Reality (AR) in partnership with Taipei Hydraulic Engineering Office , Taipei Gorgeous Manhole Covers.

Best Presentation Award in Makerthon National Tournament - 2023

Issued by Ministry of Education

Created embedded systems applications for visualizing the composting of organic matter for improved waste categorization practices in mountains areas, resulting in significant improvement in overall environmental conservation.

Best Value Creation Award in Makerthon Regional Tournament - 2023

Issued by Ministry of Education

An art installation that enables hikers to observe the complete decomposition and natural transformation of organic waste into fertilizer, nourishing the entire forest ecosystem through the intricate biological processes of time and microbial activity.

Jury Prize (Champion) in Makerthon National Tournament - 2022

Issued by Ministry of Education

Created and designed a embedded systems applications that integrates sensors with an app, combining traditional Taiwanese window grille aesthetics with the air purification properties of green algae. Users can check the air quality in their homes anytime by simply opening the mobile application.

Best Design Award in Makerthon Regional Tournament - 2022

Issued by Ministry of Education

A filtering system inspired by the feeding behavior of nurse sharks. It enables aquatic life in rivers to swim through the filtration system, leaving behind the debris. This innovative solution effectively reduces the presence of floating debris in water bodies, ensuring a clean habitat for riverine wildlife.

Shortlisted Digital Entertainment category in 5G Mobliehero - 2021

Issued by Industrial Development Administration

Designed and developed an interactive night run fitness device, incorporating the features of 5G Massive Internet of Things (IoT), electronic integration design, and real-time cloud integration with a mobile app. Targeted at the possibility of remote running during the pandemic.

Shortlisted AI Experiment in Intel® DevCup x OpenVINO™ Toolkit - 2021

Issued by Intel Corporation

Training a AI model for object detection on a Raspberry Pi 4, combined with the Intel® Neural Compute Stick 2, and integrated development using the OpenVINO Toolkit. And improve room organizing experience to efficiently tidy up their space

SCHOLARSHIPS

- Presidential Award (GPA: 4.00/4.00) - 2019 Fall Semester
- Presidential Award (GPA: 4.00/4.00) - 2020 Spring Semester
- Presidential Award (GPA: 4.00/4.00) - 2021 Spring Semester
- Outstanding Graduation Grade Award (GPA: 3.99/4.00) - 2023
- Most Excellent Overseas Student Graduate Award - 2023
- Academic Competition Excellence Award - 2022 Fall Semester
- Academic Competition Excellence Award - 2023 Spring Semester
- Academic Competition Excellence Award - 2023 Fall Semester

CERTIFICATES

- 805 Score TOEIC Listening and Reading Test issued by Educational Testing Service - 2024
- Program in Artificial Intelligence and Virtual Reality issued by NTUT - 2023
- AI-900 Microsoft Azure AI Fundamentals issued by Microsoft - 2023
- Fundamentals of Deep Learning issued by NVIDIA - 2022
- Getting Started with AI on Jetson Nano issued by NVIDIA - 2022
- Completion of Java OCP JP Training issued by Digital Governance Association - 2021

BIOGRAPHY & MOTIVATION

Hi, my name is Benedict Tiong, or you can call me Ben for short. I'm Malaysian, so I was born and raised there. However, for about the last five years, I have decided to pursue my education in Taiwan. So, I graduated from the National Taipei University of Technology (NTUT) with a Bachelor of Science in Interaction Design. Then, I kept pursuing a master's degree in computer science at the National Yang Ming Chiao Tung University (NYCU). I continued my postgraduate study because I was interested in what I learned.

I interned in the IT department of Makalot company for about one year. I was a backend software engineer at Makalot, and my jobs included containerizing the existing application, building the microservice application, and implementing some IT automation routines. This internship provided me with hands-on experience in IT operations and software development, which really reinforced my technical skills.



國立臺北科技大學

National Taipei University of Technology

The President of National Taipei University of Technology,
on the Recommendation of the Faculty, Has Conferred upon

BENEDICT TIONG ING NGIE (張永義)

Who Has Satisfactorily Fulfilled All Requirements for
the Degree of

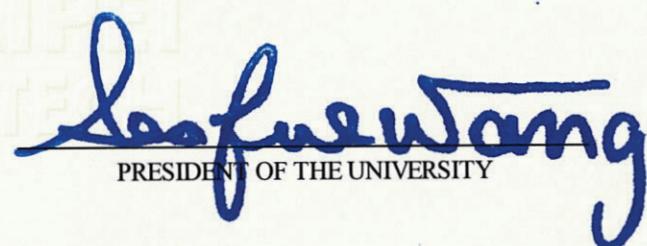
BACHELOR OF SCIENCE

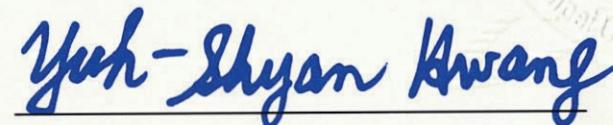
in Interaction Design,

*with All the Rights, Privileges, and Honors Thereunto Appertaining,
in Witness Whereof the Seal of the University and the Signature of
the Proper Authority Is Hereunto Affixed.*

Given in Taipei, Taiwan, Republic of China

The Thirtieth of June, in the Year of Two Thousand and Twenty Three


PRESIDENT OF THE UNIVERSITY


PROVOST OF ACADEMIC AFFAIRS

Student ID NO.108AC1033

This NVIDIA DLI Certificate has been awarded to

Benedict Tiong Ing Ngie

for the successful completion of

深度學習基礎理論與實踐



Will Ramey
Senior Director, Developer Programs

March 12, 2022

Fundamentals of Deep Learning - NVIDIA DLI

This NVIDIA DLI Certificate has been awarded to

Benedict Tiong Ing Ngie

for the successful completion of

深度學習基礎理論與實踐



Will Ramey
Senior Director, Developer Programs

March 12, 2022

Getting Started with AI on Jetson Nano - NVIDIA DLI



Completion of Java OCP JP



Potential Award of XR Social Welfare Development



教育部獎狀

國立臺北科技大學劉芝良、張永義、黃亭中同學組成之「互動小築」隊伍參加教育部「2023年技職盃黑客松競賽」全國賽成績優異榮獲最佳簡報獎

特頒獎狀 以資鼓勵

部長潘文忠



中華民國 112 年 6 月 12 日

臺教技(三)字第 1120058061 號



教育部獎狀

國立臺北科技大學劉芝良、張永義、黃亭中同學組成之「互動小築」隊伍參加教育部「2023年技職盃黑客松競賽」北區分區賽成績優異榮獲最佳創造價值獎

特頒獎狀 以資鼓勵

部長潘文忠



中華民國 112 年 6 月 12 日

臺教技(三)字第 1120058061 號



教育部獎狀

國立臺北科技大學劉芝良、張永義、王品勻同學組成之「互動客」隊伍參加教育部「2022黑客松：技職盃全國大賽」成績優異榮獲評審團大獎

特頒獎狀 以資鼓勵

部長潘文忠



中華民國 111 年 5 月 30 日

臺教技(三)字第 1110053316 號

Best Presentation Award
Makerthon National Tournament 2023

Best Value Creation Award
Makerthon Regional Tournament 2023

Jury Prize (Champion)
Makerthon National Tournament 2022



Best Design Award
Makerthon Regional Tournament 2022



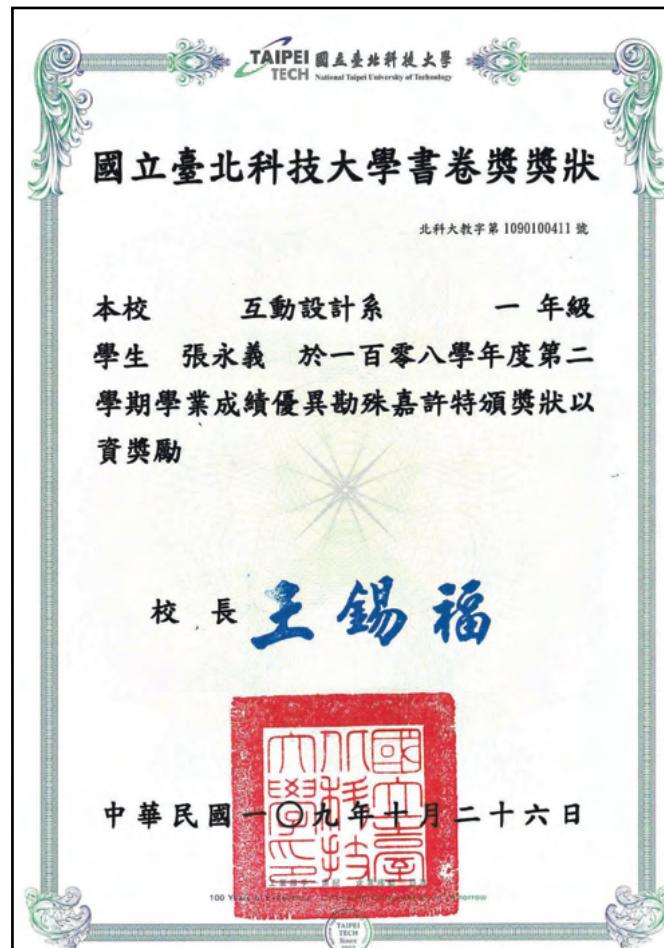
Shortlisted AI Experiment
Intel® DevCup x OpenVINO™ Toolkit 2021



Shortlisted Digital Entertainment category
5G Mobilehero 2021



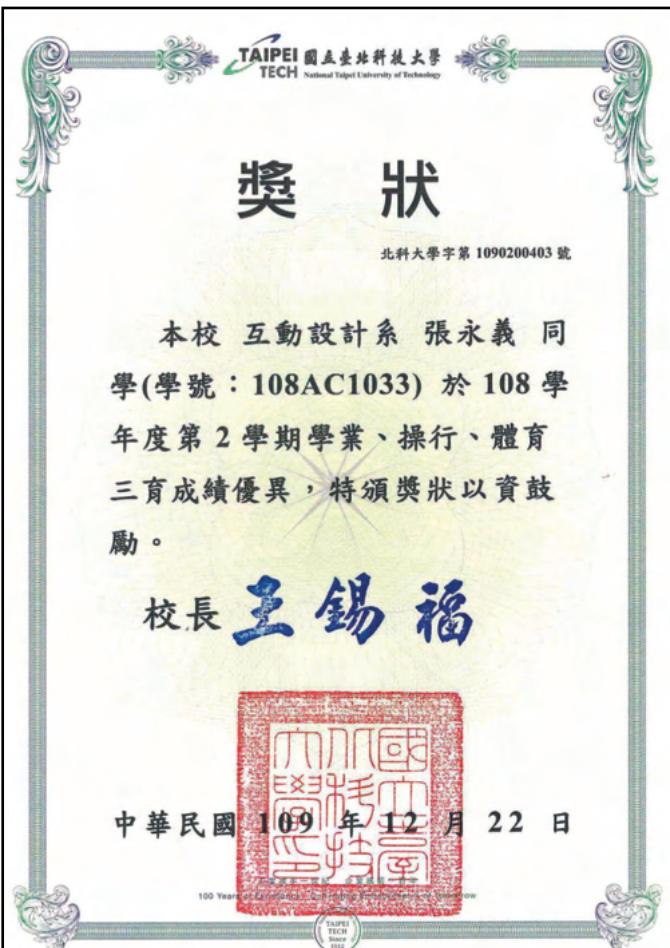
Presidential Award - 2019 Fall



Presidential Award - 2020 Spring



Presidential Award - 2021 Spring



Tri-excellence Award - 2019 Spring

Tri-excellence Award - 2020 Fall

Tri-excellence Award - 2020 Spring



Tri-excellence Award - 2021 Fall



Outstanding Graduation Grade Award 2023



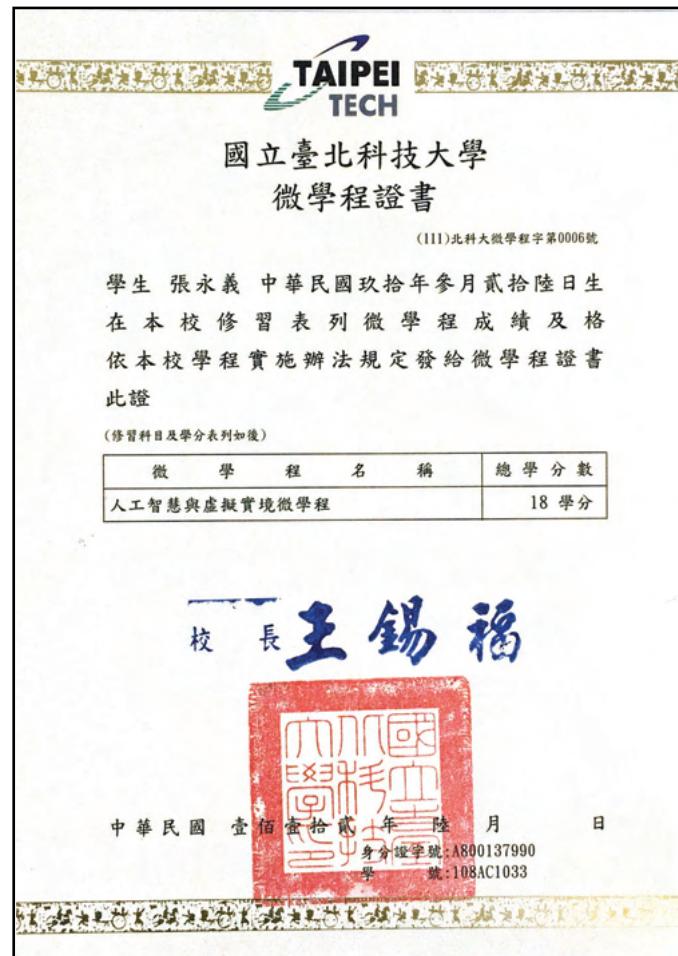
Excellent Overseas Student Graduate Award 2023



Excellent Overseas Student Award 2023

Excellent Overseas Student Award 2022

Excellent Overseas Student Award 2020



Program in Artificial Intelligence and Virtual Reality 2023

考試分數報告

考生	考試									
張 永鈞 1, Sec. 3, Zhongxiao E. Rd., Taipei 10608 Taiwan Taipei 10608	AI-900: Microsoft Azure AI Fundamentals									
benedict.cs12@nycu.edu.tw	註冊編號: 449475106 考試參考號: 44124550 日期: May 10, 2023 ID: Benedict1033									
結果	100	200	300	400	500	600	700	800	900	1000
必須達到分數										
您的分數										
小節分析	總分									
描述人工智慧工作負載與考量(20-25%)	83%									
說明Azure 上機器學習的基本準則(25-30%)	84%									
說明Azure 上電腦視覺工作負載的功能(15-20%)	80%									
說明Azure 上自然語言處理(NLP) 工作負載的功能(25-30%)	88%									
結果										
合格										

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AI-900 Microsoft Azure AI Fundamentals

Microsoft 2023

ETS® TOEIC®

LISTENING AND READING OFFICIAL SCORE CERTIFICATE

TOEIC® 听读成绩代碼 及考場分組和序號
2F, No. 4, Sec. 3, Peiping S. Rd., Taipei 10462, Taiwan (R.O.C.)

	BENEDICT TIONG ING NGIE BENEDICT TIONG ING NGIE Name 2001/03/26 Date of Birth (yyyy/mm/dd) 24311138 2024/02/25 Registration Number Test Date (yyyy/mm/dd) Individual (February 2024) Client
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TOEIC® 成績單查詢應用程式

iOS版

LISTENING

Your stated score is between 400 and 495. Test takers who score around 400 typically have the following strengths:

- They can infer the central idea, purpose, and basic context of short spoken exchanges or statements, even if new conversational topics are introduced or end to early without warning.
- They can infer the central idea, purpose, and basic context of extended spoken texts, even when the language is somewhat unfamiliar, and when the information is paraphrased or paraphrased and when it is necessary to connect information across the text.
- They can understand simple constructions, even when negative constructions are present, when the language is grammatically complex, or when certain vocabulary is used.
- They can understand details in extended spoken texts, even when it is necessary to connect information across the text when the information is not clearly stated, and when the language is somewhat unfamiliar, or when the information is paraphrased or when negative constructions are present.

To see weaknesses typical of test takers who score around 400, see the "Proficiency Description Table."

READING

Your stated score is between 350 and 495. Test takers who score around 350 typically have the following strengths:

- They can infer the central idea and purpose of a written text, and they can make inferences about details.
- They can understand main ideas: they can understand factual information, even when it is paraphrased.
- They can connect information across a single text within a test, even when the information is not clearly stated, and when the language is somewhat unfamiliar.
- They can understand medium-level vocabulary. They can sometimes understand difficult vocabulary in context, unusual usages of common words, and idiomatic expressions.
- They can understand basic grammatical structures. They can also understand difficult, complex, and uncommon grammatical constructions.

To see weaknesses typical of test takers who score around 350, see the "Proficiency Description Table."

ABILITIES MEASURED

PERCENT CORRECT OF ABILITY MEASURED

Your Percentage

	Your Percentage
Can infer goal, purpose and basic context based on information that is explicitly stated in short spoken texts	73
Can infer goal, purpose and basic context based on information that is explicitly stated in extended spoken texts	85
Can understand details in short spoken texts	87
Can understand details in extended spoken texts	85
Can understand meaning in a phrase or sentence	86

ABILITIES MEASURED

PERCENT CORRECT OF ABILITY MEASURED

Your Percentage

	Your Percentage
Can make inferences based on information in written texts	78
Can locate and understand specific information in written texts	80
Can connect information across multiple sentences in a single written text and across texts	85
Can understand vocabulary in written texts	82
Can understand grammar in written texts	80

HOW TO READ YOUR SCORE REPORT:

Percent Correct of Ability Measured

Percentages of items you answered correctly on this test form for each one of the Abilities Measured. Your performance on questions testing these abilities cannot be compared to the performance of test-takers who take other tests or to your own performance on other test forms.

Note: TOEIC scores more than two years old cannot be reported or validated.

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TOEIC Listening and Reading Test 2024

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「2022黑客松 技職盃全國大賽」總決賽 北科大獲「評審團大獎」



國立教育廣播電台

2022年5月16日



國立臺北科技大學互動客團隊作品「綠窗花_淨空氣的社區植栽運動」，榮獲評審團大獎



GND | 35.4k 人追蹤 ☆追蹤

北科大學生設計「蓋水好行」觀光App(圖)



The Central News Agency 中央通訊社

2023年5月11日



台北科技大學互動設計系學生團隊設計「蓋水好行」觀光App，透過人孔蓋上的AR互動及App圖鑑，可前往當地特色景點，與吉祥物一起達成各項成就。(北科大提供)

中央社記者許秩維傳真 112年5月11日



