HAO-TIAN LU 呂顥天

New Taipei City, Taiwan • ted.lu.tw@gmail.com • tedlu-tw.github.io

SUMMARY

I am a highly curious and active student who has demonstrated a remarkable ability for self-learning, resource collecting, data analysis, and its practical application across various scenarios. My journey began at the young age of seven when I became deeply fascinated by the creativity and potential of technology. This early passion led me to embark on self-studying programming languages and exploring electronics and hardware development, starting with Arduino as my foundation.

As I progressed, I delved into software development, Internet of Things (IoT), machine learning, and deep learning, among other fields. These pursuits honed my logical thinking and further enhanced my capacity for self-directed learning. At the age of eleven, I accomplished the Computer Skills Foundation TQC+ Certification in Python and C Language professional programming with a perfect score.

Throughout my academic journey, I have cultivated a proactive approach to seeking knowledge and solutions. When faced with challenging research questions, I employed my resourceful skills to seek answers from foreign programming communities or by reaching out to esteemed professors in the respective research areas via email. This practice not only helped me find solutions but also fostered my scientific research attitude and critical thinking skills.

EXPERIENCES

Institute of Biomedical Sciences (IBMS), Academia Sinica
Taipei, Taiwan

Research Student
June 2023 - Present

- Proficiently conducted data science and in-depth analysis of magnetic resonance imaging (MRI) data, with a specific focus on brain connectome research.
- Development of cutting-edge analysis software, and cloud computing infrastructure deployment to optimize data storage and accessibility.
- Actively engaged in advanced studies encompassing neuroimaging, biomedical sciences, and neurosciences, consistently staying abreast of the latest research and breakthroughs in these fields.

Taiwan Open Education Development Unit
Taiwan (Hybrid)

Founder / Data Engineer
June 2021 - Present

- Led a team to successfully develop and launch the CourseAPI platform, streamlining course information and accessibility.
- Developed efficient data scraper tools, automating data collection and analysis processes.
- Conducted regular maintenance to ensure the CourseAPI platform's optimal performance and data accuracy.
- Conducted in-depth analysis of issues related to open educational resources and open source education.

g0v Taiwan Community
Taiwan (Hybrid)

Participant / Sch001 Lecturer
May 2021 - Present

- Actively engage in various open source initiatives, contributing code, documentation, and community support.
- Deliver engaging lectures on digital literacy, empowering students with essential technical skills in Sch001 courses.
- Providing guidance and insights to several education-related open source projects as technical advisor.

EDUCATION

Taipei Digital Experimental High School (T-School)   **2023 – Present**
Taipei, Taiwan (Hybrid)

- A public hybrid experimental education high school located in several places in Taipei, Taiwan.
- Integrates digital technology and inquiry-based learning, aiming to assist every student in achieving personalized deep learning.

New Taipei Municipal Yonghe Junior High School   **2020 – 2023**
New Taipei City, Taiwan

- Valedictorian of 53rd graduates with highest achievement.
- Class president of Gifted and Talented Science program.
- Elected as the school president for the academic year 2023.

HONORS

- 2019 New Taipei City Elementary School Gifted and Talented Education Program
  Individual Research Joint Presentation || **Excellence Award**
- 2020 New Taipei City Primary & High School Science Fair || **Excellence Award** || Junior High School Group
- 2021 New Taipei City Primary & High School Science Fair
  Junior High School Group || **High Distinction Award** || **Representative Study for National Fair**
- 62nd National Primary & High School Science Fair (NPHSSF) || Junior High School Group || **3rd Place**
- 2022 Young Talent Intelligence Technology Camp || **High Distinction Award**

ADDITIONAL

Languages

- **Mandarin, Taiwanese:** Native
- **English:** TOEIC 800 (2019)
- **Spanish:** Intermediate

Voluntary Experience

- Agenda Team of Hacks In Taiwan Conference (HITCON) || 2023
- Co-Founder and General Coordinator of Computer Informatics Students Conference (CISCON) || 2023
- Conference Streaming of Conference for Open Source Coders, Users, and Promoters (COSCUP) || 2021
- Certified Senior Open Source Contributor (OSCVPass Program) of Open Culture Foundation
- Technical advisor of several open source projects and communities