HAO-EN LU

SOFTWARE DEVELOPER

☎ +886 960 996 953   ✉ haoenlu.07@gmail.com   🌐 https://haoyenlu.github.io/

in linkedin.com/in/haoenlu   https://github.com/haoyenlu

ABOUT ME

Dedicated, detail-oriented, and well-trained in information management. Passionate about artificial intelligence, machine learning, and software development. Interested in exploring psychology, neurology, and philosophy. Thirsty learner skilled at leveraging interdisciplinary knowledge to resolve challenges.

EDUCATION

Graduate Pathway Program in Computer and Information Sciences
George Mason University

Fairfax, VA, USA
Jan. 2023 – May 2023

Bachelor of Business Administration in Information Management
National Taiwan University

Taipei, Taiwan
Sep. 2018 – Jun. 2022

WORK EXPERIENCE

Resort Worker

- Supported the daily operations of the national park, including washing dishes and serving in the café
- Gained insight into business management, client relationships, and American culture

Zion National Park
- Xanterra Travel Collection
Jun. – Sep. 2022

TuTor

- Planned curriculum and designed learning schedule for high school students
- Delivered lessons and helped students prepare for exams

Xue-Chen Cram School
Dec. 2020 – Feb. 2021

Restaurant and Hostel Worker

- Developed hospitality skills through performing cleaning, reception, and catering duties
- Delivered services to ensure a satisfactory customer experience
- Worked as an assistant surfing instructor to fulfill clients' recreational demands

Groundnut Backpacker Hostel
Jul. 2020

EXTRACURRICULAR ACTIVITY

Member, NTU Graduate Student Association

- Planned and launched a variety of activities to strengthen the bond between students

Instructor, NTU Pop Dance Club

- Choreographed dance routines and taught students basic dance moves.
- Prepared lowerclassmen for the joint school dance performance.
- Won numerous awards, including first place in the Regional Challenge, eighth place in College High Group Contest, and second place in College High House individual dance battle

CERTIFICATION

Coursera

DeepLearning.AI TensorFlow Developer Professional Certificate
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Fintech: Foundations & Applications of Financial Technology Specialization
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Machine Learning Specialization

Computational Neuroscience

Advanced Machine Learning on Google Cloud Specialization

SCHOOL PROJECT

Research - Using Deep Reinforcement learning Model on Traffic Signal Control for sustainable development

- Researching paper of sustainable transportation and Deep Reinforcement Learning Model
- Proving comprehensive finding on DRL model for traffic signal control and its potentail contribution in sustainble development in a research paper
- Designing research poster and presenting it in a colloqium

Web-based Logic Puzzle Solving Robot

- A web-based robot using Attempto Controlled English for Natural Language Puzzle input, combined with Stanford's Protégé-OWL for puzzle-solving ability, and implemented with Text-to-Speech and Speech-to-Text API for oral interaction.
- Combined Robot with UI/UX design for a user-friendly interface
- Using Python Flask framework for integrating backend and frontend
- Deploying on the LINUX server offers public access

Identifying Breast Cancer with Machine Learning Model

- Using pretrained Tensorflow model to identifying image of breast cancer
- Implementing custom CNN model for image classifying
- Fine-tuning model and reach 70% accuracy

SKILLS

- Python, C, C++, JavaScript, HTML, CSS, R, JAVA
- Kotlin, Jetpack
- Node.js, React.js, Three.js
- TensorFlow, Keras, Kaggle, PyTorch
- Anaconda, Matlab, jupyterlab
- Google Cloud, AWS, Kubernetes
- MySQL, MongoDB
- Blender, Unity

LANGUAGES

English:
- GRE: 321
- Toefl: 95
- GEPT: high-intermediate
- TOEIC: 880

Chinese:
- Native-Speaker