

Wen-Fang Lu

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EDUCATION

National Chengchi University, Taipei, Taiwan

Sep 2014–June 2018

Bachelor of Arts in Land Economics, **Area of Concentration: Geomatics**

Relevant Coursework: Statistics, Linear Algebra, Economics, Business English, Application of Database, Computer Programming, Object-Oriented Programming, Python Data Structures, GPS Surveying, Geographic Information System

CONTINUING EDUCATION

Courses: Python Data Structure, Computer Programming (C++)

HONOR & AWARD

Academic Excellence Award

Sep 2015

- Received 3rd place in Geomatics Program

Research Scholarship

July 2017

- Approved and funded by the Ministry of Science and Technology for encouraging undergraduate research.

WORK EXPERIENCE

RiChi Technology Inc., New Taipei City, Taiwan

July 2018–present

Web GIS Developer

Project 1: Aerial Image Interpretation GIS System (2020/05–present)

- Established the clearest 2D map system for overlay analysis of regions and urban planning, integrating WMTS layers, WMS layers, and aerial images from Aerial Survey Office, Forestry Bureau, which has the largest and complete spatial database in Taiwan
- Used Azure services, including Blob storage and SQL databases, and deployed it to the cloud
- Worked independently to create a web application with C# in ASP.NET framework

Project 2: Bank Sinopac Mortgage's Evaluation Web-based GIS Application (2019/01–2020/01)

- Created interactive map with Google Maps API under the framework of Vue CLI
- Provided technical support for customers in asset building, deployment, usage, and troubleshooting

Project 3: Egis Location Tool, Ministry of Economy R.O.C (2020/03–2020/04)

- Decreased project managers' workload for processing location data by 25%
- Improved the performance of SQL queries through analyzing actual execution plan and creating spatial indexes by 90%

RESEARCH EXPERIENCE

National Chengchi University, Taipei, Taiwan

July 2017–Feb 2018

Project: Infrastructure-free Indoor Positioning by Mobile Inertial Sensors

Advisor: Fang-Shii Ning

Retrieved the Micro Electro Mechanical Systems (MEMS) data from cell phones

- Used Python to implement the indoor positioning by dead reckoning method

Project: The Improvement on Campus Map Service for NCCU Application

Nov 2016–Mar 2017

Advisor: Jihn-Fa Jan

- Designed a relational database on PostgreSQL to store information
- Used Django model to achieve object relational mapping

- Constructed the search engine with elasticsearch API and haystack, and deployed it on the school application, which was downloaded more than 10,000 times.

Project: Center for the Study of Chinese Religion Website

July 2017–Aug 2017

Advisor: Jihn-Fa Jan

- Built a RWD website, designed a relational database on SQLite, used Django model to achieve object relational mapping, and constructed the search engine with solr API
- Worked directly with the client to establish project scope, interaction guideline, and project time lines

COMPETITION

2018 ActInSpace Hackathon, Taipei, Taiwan

May 2018

(Conducted by Centre National d'Études Spatiales and National Space Organization)

Project: Automatic detection of abnormal behavior

Team Leader

- Led a team of four people to brainstorm ideas through mind mapping
- Created the user interface of our application and made a PowerPoint presentation to demonstrate our idea and the business plan

AI + Chatbot Intelligent Service Application Competition, Taipei, Taiwan

May 2017

DevDaysAsia2017, Microsoft

Project: Healthcare Chatbot for Assistive Technology Evaluation

Team Leader

- Won the 2nd Place Award
- Led a team of four people to deliberate ideas by thought association
- Collaborated with members to develop the chatbot with computer vision API to accelerate the evaluation for assistive devices and used location-based recommendation
- Conceptualization and prototyping the conversation flow of the chatbot

The 35th Symposium on Surveying Geospatial Information, Taipei, Taiwan

Aug 2016

Project: Go! Taiwan Temple

- Honorable Mention
- Collected more than 1000 temples from Data. Taipei and built a responsive design website (RWD) on Django
- Integrated 360° temples' images to the website to create more immersive and user-friendly experiences for users

TEACHING EXPERIENCE

Math × Python

Feb 2018–June 2018

(A program launched by the Department of Mathematical Sciences, NCCU)

Teaching assistant

- Helped team members to debug codes and installed Python packages for machine learning
- Learned to train a deep CNN on cifar-10 datasets to implement the automatic quality control of the products for factories

EXTRACURRICULAR ACTIVITIES

Facebook Developer Circle facilitator (Front-End)

July 2019–Dec 2019

Front-end Team Leader

- Volunteered to organize more than 10 study groups to help non-computer science background people to learn Front-end online courses provided by Facebook

SKILLS

Programming: Web Design (Html, CSS, JavaScript), Python, C Sharp, SQL