

# Po-Chun (Philip) Huang

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## Summary

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2+ years of research experience in natural language processing and deep learning. Skilled in text generation, information extraction, text classification, data analysis, visualization, and full-stack development. Passionate about solving real-world problems.

## Education

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### National Chung Hsing University

MS in Department of Computer Science and Engineering

Jul 2019 – Aug 2021

Taiwan, Taichung

### National Taichung University of Science and Technology

BS in Department of Computer Science and Engineering

Sep 2015 – Jun 2019

Taiwan, Taichung

## Experience

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### Senior Research and Development Engineer

[Delta Electronics](#)

Apr 2022 - Present

Taiwan, Hsinchu

1. Build an intelligent contract analysis system using React and Transformer model.
2. Improve the ASR engine's performance with text error correction technology.
3. Integrate service and module into Docker or Python Package.

### Software Engineer

[Industrial Technology Research Institute \(ITRI\)](#)

Nov 2021 - Apr 2022

Taiwan, Hsinchu

1. Build a legal document relation extraction system with Transformer model.
2. Drug prediction based on machine learning and text analysis.
3. Text model visualization for system demonstration.

### Summer Intern

[Industrial Technology Research Institute \(ITRI\)](#)

Jul 2020 - Aug 2020

Taiwan, Hsinchu

1. Relation extraction and document structuring using Transformer models.
2. Legal document labeling system development for information extraction training.
3. Lead intern partners in teamwork development.

## Selected Projects

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### Educational Question Group Generation

*Feb 2021 - Jan 2022*

Combining language model and genetic algorithm to generate educational question group.

[GitHub](#)

### Transformer QG on SQuAD

*Mar 2021 - Sep 2022*

Implement Question Generator with SOTA pre-trained Language Models.

[GitHub](#)

### Legal Document Structuring System

*Jul 2020 - Apr 2022*

Relation extraction and document structuring using transformer-based models that can identify information about the defendant.

### Legal Document Labeling Tool

*Jul 2020 - Oct 2020*

A legal document labeling system for information extraction training.

[GitHub](#)

### Taipei QA Bot

*Nov 2019 - Mar 2020*

Ask a question and the bot will tell you which government department you should go to.

[GitHub](#)

### EdTech Taiwan 2019 Marquee System

*Oct 2019 - Feb 2020*

The marquee system exhibited at EdTech Taiwan 2019.

[GitHub](#)

## Award

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### The fourteenth TSC Thesis Award

*Jul 2021 - Sep 2021*

Deep learning question group generator

**Honorable Mention**

### EDUATHON 2020

*Sep 2020 - Oct 2020*

Querator AI (question generator) for education

**Second Place Award**

### LegalTech Hackathon 2020

*Jul 2020 - Sep 2020*

Defendant's Network Relationship Diagram

**Special Award**

## Skills

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Programming

Python, JavaScript

Frameworks

PyTorch Lightning, Fast API, Flask, React, Tailwind

Libraries

Transformers, Pandas, PyTorch, Redux, MobX, D3.js

Others

Ubuntu, Git, Docker, AWS, MySQL, Elasticsearch