

Yu-Jung Chen (Perry)

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WORK EXPERIENCES

Senior Software Engineer, Aiello AI Inc., Taipei, Taiwan

03/2019–10/2021

Designed and Developed Intelligent Voice Assistant for Hospitality.

- Reduced 90 % operation time for new hotels by changing service into configurable with **MongoDB** and **Neo4j**.
- Improved 40% the backend performance by using **Nginx** and tuning **uWSGI**'s parameter.
- Launched the Japanese NLU functionality to broaden oversea market.
- Built the UI platform for hotels' data management with **React** and **Node.js**.
- Saved 80% time on log tracing by setting up monitoring service with **AWS ELK**.
- Set up CI/CD process with **Jenkins**, **Pytest**, Azure Container Registry, and **Kubernetes**.
- Led 2 engineers and 4 data labelers to develop this system.
- Achievement: This system received a grant of US\$300,000 from the government at R.O.C.
- Group Achievement: Won first prize at Taiwan largest innovation competition (over 200 teams).

Conceptualized and developed Booking Bot for restaurant.

- Integrated the **Rasa** and **Dialogflow** to take advantages from both sides.
- Built data pipeline with multi-threading structure by implementing **Celery** and **RabbitMQ**.

Developed Document Extractor

- Take the PDF, Excel, txt as document input and output summarization.

Software Engineer, Mind Craft Co., Ltd, Taipei, Taiwan

07/2018–02/2019

Developed the NLU engine for Chunghwa Telecom, the biggest telecom company in Taiwan.

- Developed backend with Flask and containerized with **Docker** and deployed on premise servers.

Engaged the Recommendation System for Family Convenience Store.

- Reduce the 20% advertising cost with **Decision Tree** and **SVM** for fast online prediction.

PROJECTS

Efficient Spatial Database | Java

- Built a skip list to allow amortized logarithmic performance in search, insertion, and deletion by keys
- Implemented a point-region quadtree to achieve logarithmic searching performance with coordinates

EDUCATION BACKGROUND

Virginia Tech (Virginia Polytechnic Institute and State University), Falls Church, VA

Master of Computer Science

08/2022–Expected 12/2023

National Yang Ming Chiao Tung University (NYCU), Hsinchu, Taiwan

M.S. in Materials Science and Engineering

09/2014–08/2016

- Graduation Grade: 4.09 / 4.3, Master Thesis: 4.3 / 4.3

B.S. in Materials Science and Engineering

09/2010–06/2014

SKILLS

- **Programming language:** Python3, Java, JavaScript, C++
- **Backend:** Python FastAPI/Flask/Celery, Nginx, ELK, MySQL, MongoDB, Redis, Neo4j
- **Frontend:** Node.js, React, Redux
- **Cloud/DevOps:** Azure, AWS, GCP, Jenkins, Docker, Kubernetes
- **ML/DL:** ChatBot framework Dialogflow/QnA Maker/Rasa, Bert, GPT2