






Sun Yang

 M.AS., Information Engineering, [University of Hiroshima](#) 2018 - 2020

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Data Engineer, [Micron Technology](#), Hiroshima, JP Apr 2020 - Present

- **Industrial Internet of Things (IIoT)**

Python/Linux/Javascript/Thingworx/Raspberry Pi

Developed a real-time online ETL system for monitoring temperature, instrumental panel value and healthy index from equipment. Achievement by saving 3 hours daily check time for operators.

- **Temperature Time-Series Prediction**

Python/Machine Learning/Data Engineering

Feasibility study for temperature time-series prediction by ML in order to prevent unexpected halt of machine. Specifically, it was based on Gauss-distribution theory to predict when the value will arrive at threshold and return corresponding timeline. Achievement by increasing manufacturing availability(MA) index by 0.5%.

- **Web Application Development**

Python/SQL/Tableau/Linux

Backend development on creating a stable ETL system for reflecting data to the frontend for auto-analysis dashboard. Improved data query and load time by 50% by optimizing SQL code. Achievement by saving 20 hours analysis time manually per week for clients.

- **Questionnaire Analysis**

Python/Natural Language Processing/Tableau

Provided progressive analysis of internal engagement surveys to the HR department by using natural language processing including word tokenization, keyword extraction, n-gram combination and sentiment calculation in order to improve the working environment.

LANGUAGE

- Chinese - native speaker
- English - business level
- Japanese - business level

EDUCATION

Bachelor, Mathematics and Computing Science. Dalian Jiaotong University, CN. Sep 2012 - June 2017

C/Java/JavaScript/SQL/Data Structure/System Design/Operating system

- Developed an online shopping application for graduation program based on MVC pattern.

Master, Information Engineering. University of Hiroshima, JP. Apr 2018 - Mar 2020

Python/Machine Learning/Artificial Intelligence/Data Management/Image Processing

- Focused on research in the recommendation system. Accomplished by increasing prediction accuracy by 7-8% of user's potential rating for items (restaurant and tourist resort) by integrating with user's features extracted from reviews based on tensor-factorization theory.
- Joined "[Seventh International Symposium on Computing and Networking](#)" conference held at Nagasaki, Japan, November 26-29, 2019.