Sun Yang

M.AS., Information Engineering, University of Hiroshima 2018 - 2020

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Data Engineer, Micron Technology, Hiroshima, JP Apl 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.