Kyu Hur

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Experience

Software Engineer
Feb 2021 – Present

FPT Software Tokyo, Japan

- Develop and optimize time-series demand forecasting models on **Python**, producing **5~10%** more accurate forecasts on average and saving a projected **USD$100,000** a year for a client over the next 3 years
- Establish standardized systems design for projects using pre-commit, code formatting, and code linting tools on Python, leading to faster project deliverables and saving approximately **eighty man-hours** per project
- Perform coding reviews, write unit tests, and integrate new models as part of the broader machine learning DevOps team
- Deliver monthly presentations of Usee, an end-to-end forecasting SaaS product, to clients in Japan, South Korea, Malaysia, Germany, and the United States
- Oversee day-to-day duties and long-term goals of three data science interns and junior data scientists

Research Intern
Nov 2021 – Present

Stanford University Remote

- Develop novel data accessibility and data security protocol rating systems of the popular wearable devices (e.g. Fitibit, Apple Watch) used for clinical trials
- Draft a chapter of a comprehensive manuscript discussing the role of wearable devices in health research slated for publication in Lancet Digital Health

Medical Affairs Intern
Apr 2020 – Dec 2020

Janssen Pharmaceutical Companies of Johnson & Johnson Tokyo, Japan

- Spearheaded a three-member team project to determine that Macitentan was prescribed twice as frequent as a competitor's and had fewer side effects
- Produced reports on the effectiveness of new schizophrenia therapies in Japan

Software Projects

Benchmarking Tool (FPT Software)

- Develop a close-sourced tool to benchmark models on custom datasets against state-of-the-art models under **Amazon's GluonTS Python** package

Wearipedia (Stanford University)

- Build and contribute to sections of over 20 wearable devices on the market
- Written in **Svelte** with Prismic, available at wearipedia.org

Air Pollution, Pollen, and Mortality Correlation (University of Tokyo)

- Determined an exacerbating effect of pollen on air pollution and mortality in nine cities in Japan with **R** and **Python**. Published in the 2021 ISEE conference

Personal Website

- Created a personal website detailing work experience and passion projects
- Written in **Ruby** and **CSS**, available at kyuhur2.github.io

Other Experience

- Graduate Research and Teaching Assistant (University of Tokyo) – 2020
- Academic Researcher (University of Illinois) – 2016 to 2018
- Data Research Analyst (United Nations Volunteers) – 2018

Education

University of Tokyo
Graduated: Mar 2021

- Master of Science in Health Sciences

University of Illinois, Urbana-Champaign
Graduated: May 2018

- Bachelor of Science in Chemistry

Skills

Languages:
- English (Native)
- Korean (Fluent)
- Japanese (Daily)

Software:
- Python
- R
- SQL
- Java
- Svelte

OS and Tools:
- Git
- Azure
- Windows
- Linux
- Windows Subsystem Linux