

Kyu Hur

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SUMMARY

I am a software engineer with degrees from the **University of Tokyo** and the **University of Illinois at Urbana Champaign**. With a history of diverse educational pursuits and experiences, I provide crucial technical and business perspectives in the realm of technology.

I have **one year** of professional software engineering experience, **three years** of leadership and project management experience, and **five years** of general research experience.

TECHNICAL SKILLS

OS	Windows, Linux, WSL
Languages (Software)	Python, R, SQL, Java, Svelte
Languages (Linguistic)	English (Native), Korean (Fluent), Japanese (Conversational)
Platforms	Azure
Tools	Git, UML

WORK EXPERIENCE

Software Engineer

Feb 2021 – Present

FPT Software

Tokyo, Japan

- Develop and optimize time-series demand forecasting models, producing **5~10%** more accurate forecasts and saving a projected **USD\$100,000** a year for a client over the next 3 years
- Establish standardized systems for projects using **pre-commit**, **code formatting tools**, and **code linting tools**, 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 our end-to-end forecasting SaaS product to clients and external team members in **Japan, South Korea, Malaysia, Germany**, and the **United States**
- Oversee weekly duties and 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 rating systems of popular wearable devices (e.g. Fitbit, 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 a new schizophrenia therapy in Japan

Graduate Research and Teaching Assistant

Jul 2020 – Oct 2020

University of Tokyo

Tokyo, Japan

- Teaching Assistant for the “Environmental Health and Research Methods” course taught by Dr. Yoonhee Kim
- Trained and managed **three** other graduate and undergraduate students

Academic Researcher

Mar 2016 – Dec 2018

University of Illinois

Illinois, USA

- Co-author of **three** academic publications pertaining to water engineering technology
- Trained **two** new undergraduate and graduate hires to perform various laboratory experiments
- Collaborated with **three** postdoctoral scholars to meet the short-term goals of active grants
- Analyzed lethal dose levels of water sources for **multiple, million-dollar grants** awarded by the National Institute of Health, National Science Foundation, and the United States Department of Defense

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 **SCSS**, available at **kyuhur2.github.io**

EDUCATION

University of Tokyo

Graduated: **Mar 2021**

Master of Science in Health Science

University of Illinois at Urbana Champaign

Graduated: **May 2018**

Bachelor of Science in Liberal Arts and Science, Chemistry