Takuma Yoshioka

Data scientist
Head of New business development

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- Japanese
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EDUCATION

M.S. in Chemistry,
Tokyo Metropolitan University
2014 - 2016

Misasa International Student Intern Program
Institute for Planetary Materials, Okayama University
2014

LANGUAGES

Japanese (Native)

English (Professional)

INTERESTS

Cooking

Photography

Science

CAREER PROFILE

Data scientist with Business Planning Experience

- **7 years of data science and software development**, including planning of new digital service.
- Established and managed an application development team as a group leader, responsible for **end-to-end project delivery**.
- Expert in **data analysis, combinatorial optimization, machine learning, and mathematical modeling** using Python and SQL.
- Strong analytical and execution skills with leadership; strong understanding of business strategies and processes, gained through new business planning and driving company-wide initiatives.
- **Led and coordinated** with multicultural teams in English; worked with engineers in Thailand and Vietnam.

PROFESSIONAL EXPERIENCE

Group leader of New Business Development in Digital solutions   2019 - Present
TOYOTA TSUSHO SYSTEMS (THAILAND) Co., Ltd., Bangkok Thailand

1. **Launched a New business planning process in the company.** Proposed for lack of new planning function and designed a new business development framework. Started next year as a **new established team**, expanding to 6 members in 2 years (local members in Thailand). Initiated leading teams in identifying and resolving project and organizational issues. Reporting to President and Division manager as a Group leader.
2. **Developed digitalization support business.** Created a digitization support business applying No-code tools (bubble.io, PowerApps) with a few software engineers, discovered IT consultation service by communicating directly with end-users from a neutral standpoint. Completed more than five projects totaling over 5M THB. The business was highly regarded as a cornerstone of the application business throughout the company.
3. Involved in projects that drive change in the automotive industry, notably CASE. Examining and promoting both business and technical issues.

Mathematical optimization engineer / consultant   2016 - 2019
KOZO KEIKAKU ENGINEERING Inc., Tokyo Japan

Worked as Project manager / Data Scientist / System Engineer / Educator

1. **Simulator development and data analysis for MaaS planning.** Development of a discrete event simulator for preliminary verification of new mobility service planning (python/simpy). Analyzed and reported simulation results. As a project manager, managed progress, quality control, and client negotiation for each project phase, worth 40M JPY in 3 years.
2. **Automation of floor plan design in housing.** Development of automated design algorithms using heuristic techniques (C#). Collaborated with a major Japanese construction company to explore new possibilities for applications of mathematical optimization technology. Horizontal deployment to other companies in the industry was also considered, resulting in a 2-year, 30M JPY project.

ADDITIONAL EXPERIENCE

Project manager of AI function development   2021 - Present
Flare (Thailand) Co., Ltd., Bangkok Thailand

Algorithm development for driving behavior event detection using smartphone GPS/sensor data. Led the technical direction and project management. Working on new algorithm development, data analysis, and technical proposal to CTO. Collaborated with Vietnamese engineers on a fully remote and part-time basis.

Mentoring in Data Science Schools   2021 - Present
Data Learning Inc., Tokyo Japan

Provided learning support and career assistance to 15+ students through online sessions.
Participated as the first mentor and planned the standards of the service. Supporting scientific thinking, SQL, reporting, and Python/Machine learning basics.

COMMUNITY INVOLVEMENT

Data Learning Guild   2020 - Present
Contributed to an online community of Japanese data scientists. Promoting multiple projects improved various skills.

- Network analysis of slack conversation data
- Knowledge graph development using SemanticMediaWiki
- Crowdfunding project planned to launch a service to solve their challenges in learning data science

TMU-SFC   2010 - 2016
Designing and operating science experiment classes for children. Represented in 2021. Experienced in leadership and long-term organizational management ideas.

CERTIFICATION

AWS Certified Developer - Associate (DVA-C01)   2023

TOEIC Listening & Reading Score 805   2019

Associate Professional Engineer (Industrial Engineering)   2017

Certified Applied Information Technology Engineer   2016

SKILLS & PROFICIENCY

Data Analysis; pandas / scikit-learn, SQL, Excel, PowerBI

Operations research / Mathematical optimization (Python/Pulp)

Software development; Python, C#, Go, NoCode

Cloud computing; AWS, GCP, Azure

Problem Solving; Root cause analysis, critical thinking, issue identification and resolution

Adaptability; Quick learner, flexible mindset, open to new challenges

Collaboration; Cross-functional team leading, multicultural communication, team building

Agile project management