Hsin-Hua Yang

Contact
cindy50633@gmail.com
github.com/cindy50633
Yokohama City, Kanagawa

Languages
Japanese: JLPT N1
English: TOEFL iBT 98
Chinese: Native

Expertise
Programming Language
- Python ●●●●●
- TypeScript ●●●○○
- SQL ●●●○○
- VBA ●●◐○○
- PHP ●◐○○○
- Shell ●●○○○

Tools
- Git ●●●●◐
- Docker ●●●○○
- React ●◐○○○
- AWS ●◐○○○

Fields of Experience
- OR ●●●●○
- ML ●◐○○○
- DS ●●●◐○○
- Web Dev ●●●○○

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OR: Operations Research
ML: Machine Learning
DS: Data Science
Web Dev: Web Development

Education
B.S. in Electrophysics, National Chiao Tung University, Taiwan
Graduated Jun 2016

Certificates
- Fundamental IT Engineer Exam
- Coursera – Introduction to Machine Learning
- Coursera – Discrete Optimization

Experience
FREELANCE CONTRACT | Ridge-i Inc., Tokyo, Japan
Aug 2025 – NOW

SENIOR ENGINEER | Ridge-i Inc., Tokyo, Japan
Aug 2024 – Jul 2025

ENGINEER | Ridge-i Inc., Tokyo, Japan
Mar 2023 – Jul 2024

Logistics Warehouse Layout Design Project: [Reference Link]
- Designed and developed optimization models using **local search** and **tabu search** to generate optimal warehouse layouts.
- Demonstrated practical effectiveness of developed models, achieving **improvements in operational efficiency and cost reduction** over traditional manual approaches. Models already deployed and actively used by clients.
- Undergoing review for **patent application** of the developed models.

CNC Layout Design Project (Packing Problem):
- Developed a model utilizing **greedy and heuristic algorithms** to efficiently pack donut shapes and circular shapes in CNC production.
- Reduced average area loss by **5%** compared to manual methods.

ENGINEER | looking up Inc., Tokyo, Japan
Jan 2021 – Feb 2023

Candidate Selection Project:
- Designed and developed a model combining **linear programming** and custom **probability functions** to identify interviewers meeting specific conditions from survey results.
- Achieved the effectiveness of **mixed integer programming (MIP)** without using traditional MIP solvers.

PART-TIME ENGINEER | ielove-group Inc., Tokyo, Japan
Feb 2020 – Jun 2021
- Maintained real estate websites using PHP, JavaScript, and HTML.

PROGRAMMER | Link Your Company Co., Ltd., Tokyo, Japan
Oct 2018 – Jun 2019
- Gained hands-on experience in software development using Python.

TEST ENGINEER | Elo Touch Solutions, Taiwan
Jul 2016 – Aug 2018
- Designed software utilizing **linear regression** for converting CSV files into visual graphs using Python.