

▪ Japanese Software Engineer

PROFESSIONAL EMPLOYMENT EXPERIENCE

Pixel Software - Japan, Ehime

2021.04 - 2023.06

Software Engineer

Product Solutions Division 1

1. Industrial and Public Plant Monitoring System Development

- Developed a new system using Golang and Python to replace the existing VB and C gateway systems, improving maintainability and scalability.
- Optimized Golang's concurrency features to handle thousands of sensor tags, increasing data throughput by over 40%, enhancing data stability, and reducing processing time.
- Developed a TCP/IP-based socket gateway to manage real-time data flow in industrial environments.
- Programmed control software in C# for data operation in Windows environments.

2. Backend Development with REST API

- Designed and maintained internal management systems using Python (Django) to support employee information management and project tracking.

3. Collaborative Development and Quality Assurance

- Collaborated within a 7-member team to plan, design, and deliver software functional specifications.
- Developed and executed test plans to ensure functionality, performance, and security.

4. Documentation and Reporting

- Created detailed technical documentation, including system architecture and API specifications.
- Prepared reports and presentations to communicate project progress and solutions to stakeholders.

Education Background

East China Normal University - Master of Software Engineering; GPA 3.1 / 4.0

2023.9 - 2026.6

Shanghai International Studies University - Bachelor of Arts; GPA 3.4 / 4.0

2019.9 - 2021.6

Master Degree Research Project : Machine Learning

Building a Flight Ticket Sales Forecasting Model Using Machine Learning

- Analyze the factors influencing prices based on historical airline ticket price data, and examine which factors affect airline ticket prices
- Compare the predictive accuracy of multiple machine learning algorithms (e.g., LightGBM, GBDT, SARIMA) to identify the optimal method
- Researching a unique machine learning algorithm aimed at predicting the optimal airline ticket prices

Featured My Project

🚁 GoDrone

- Remote control and video streaming for the DJI Tello drone through a web browser.

LANGUAGES AND TECHNOLOGIES

- **Programming Languages:** Golang ; Python ; C# ; javaScript ; SQL
- **Frameworks:** Gin ; Django ; .NET
- **Tools:** Git ; GitHub ; Docker
- **Operating Systems:** Windows ; Linux
- **Other Technologies:** TCP/IP ; Machine Learning

Languages

- Japanese (Native); English (Professional working proficiency); Chinese (Fluent)