

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 industrial gateway system by using Golang and replaced the existing VB and C legacy systems, improving maintainability and scalability.
- Optimized Golang's concurrency features to handle thousands of industrial sensor tags, increasing data throughput over 40% by benchmark. Enhanced data stability, and reducing processing time.
- Programmed control software in C# for System-Operator to monitor Industrial data.

### 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 JQuery

## Languages

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