

## PROFESSIONAL EMPLOYMENT EXPERIENCE

Pixel Software Corporation - 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

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

2019.9 - 2021.6

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

2023.9 - 2026.6

## TECHNICAL EXPERIENCE

GoDrone 📄 <https://github.com/namashin/GoDrone>

Go Gin GoBot ffmpeg OpenCV

- Control the dji Tello drone remotely through a web browser.
- Stream live video from the drone's camera.

## 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 (Network Programming, Socket Programming)

## Languages

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