

PROFESSIONAL EMPLOYMENT EXPERIENCE

Pixel Software Corporation

2021.04 - 2023.06

Software Engineer

Product Solutions Division 1

- Developed and improved the previous VB and C factory gateway system into a new Go and Python gateway system, providing various deliverables including functional and technical designs, models, code, and unit tests.
- Programmed a TCP/IP-based socket gateway system to save real-time data from factory sensors into a database and pass the data to a web frontend.
- Debugging and Trouble shooting applications during support and maintenance work (Python; Go; SQL)
- Utilized Golang's concurrency features (goroutines and channels) to handle thousands of data sensor tags simultaneously, increasing data throughput by over 40% without incurring additional hardware costs (as per benchmark results).
- Created comprehensive software documentation for customers to understand the system.

Education Background

- Shanghai International Studies University 【Bachelor of Arts Graduated in 2021; GPA: 3.4/4.0】
- East China Normal University 【Master of Software Engineering; Expected Graduation in 2026】

TECHNICAL EXPERIENCE

Projects

PyCat 🐱 <https://github.com/namashin/PyCat> GoCat 🐱 <https://github.com/namashin/GoCat>

Python Go Windows Mac

- Displays a system tray icon that changes based on CPU usage.
- Allows switching between different animal-themed icons (cats; horses; parrots) from the system tray menu.
- Supports launching applications (WeChat; QQ; Chrome) directly from the system tray menu.

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; C#; SQL
- **Frameworks:** Gin; Django; Flask; .NET
- **Tools:** Git; GitHub; ffmpeg; OpenCV; Docker
- **Operating Systems:** Windows; Linux
- **Other Technologies:** TCP/IP (Network Programming, Socket Programming)

Languages

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