IKUMA NAGAHARA

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PROFESSIONAL EMPLOYMENT EXPERIENCE

Pixel Software Corporation - Japan, Ehime   2021.04 - 2023.06

Software Engineer   Product Solutions Division 1

1. System Design and Modernization
   - Upgraded legacy VB and C gateway systems to modern architectures using Golang and Python.
   - Designed scalable and maintainable software solutions tailored to client needs.
2. Development of High-Performance Applications
   - Developed communication applications to manage real-time data flow in industrial environments.
   - Utilized Golang's concurrency features to handle thousands of data sensor tags, increasing data throughput by over 40% by benchmarking.
3. Network Programming and Data Management
   - Implemented a TCP/IP-based socket gateway for real-time data transmission to centralized databases.
   - Enhanced system responsiveness and reliability by integrating data with web frontends.
4. Collaborative Software Development
   - Worked within a 7-member team to plan, create, and deliver software functional specifications.
5. Software Testing and Quality Assurance
   - Developed and executed testing plans to ensure functionality, performance, and security.
6. Documentation and Technical Reporting
   - Created technical documentation, including system architectures 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

My 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; Docker
- **Operating Systems:** Windows; Linux
- **Other Technologies:** TCP / IP (Network Programming, Socket Programming)

Languages

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