NAGAHARA IKUMA

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PROFESSIONAL EMPLOYMENT EXPERIENCE

Pixel Software 株式会社 - Ehime, Japan - On Site   2021.04 - 2023.06

Software Engineer   Product Solutions Division 1 Team

- Industrial and Public Plant Monitoring System Development
  - Developed a new industrial gateway system by using Golang, Python 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.
- 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.
- 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.

INTERNSHIP EMPLOYMENT EXPERIENCE

Tomorrows AI - Washington, United States - Remote   2024.10 - 2024.12

Software Developer   USA - Backend Team

- Media Platform Development, Software Development and Engineering
  - Developed a Flask-based web application for a media platform, enabling efficient keyword and title search functionalities to enhance user experience.
  - Designed and implemented a dynamic detail page to display article titles, images, and content retrieved from Flask data, improving interactivity and user engagement.
  - Contributed to the backend development of a scalable web application, ensuring clean code practices and performance optimization.
  - Collaborated with a remote, international team to deliver high-quality software solutions.

Education Background

East China Normal University - Master of Software Engineering; GPA 3.14/4.0   2023.9 - 2026.6

Shanghai International Studies University - Bachelor of Arts; GPA 3.4/4.0   2019.9 - 2021.6

LANGUAGES AND TECHNOLOGIES

- **Programming Languages:** Golang Python C# SQL
- **Frameworks:** Gin Django Flask .NET
- **Tools:** Git GitHub Docker
- **Operating Systems:** Windows Linux
- **Other Technologies:** RESTful API Design TCP/IP Machine Learning JQuery OpenAI API

Languages

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