

## PROFESSIONAL EMPLOYMENT EXPERIENCE

Pixel Software 株式会社 - Ehime, Japan. On-Site

2021.04 - 2023.06

Software Engineer - Full Time

Product Solutions Division 1 Team

- 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.
- Backend Development with REST API
  - Designed and maintained internal management systems using Python (Django) to support employee information management and project tracking.
- 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.

Tomorrows AI - Washington, United States. Remote

2024.10 - Now

Software Engineer - Intern

USA - Backend Team

- Developed a web application using Flask for searching and displaying news articles.
  - Implemented a feature allowing users to search articles by title or keyword. Displayed search results as a list, with clickable titles to redirect to detailed pages.
  - Programmed dynamic detail page displaying article titles, images, and content based on data passed from Flask.

## 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

## LANGUAGES AND TECHNOLOGIES

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

## Languages

- Japanese 【Native】
- English 【Professional working proficiency】
- Chinese 【Professional working proficiency】