

# Xu Zhusheng



A passionate **software engineer** having **18 years experiences** of building applications with **Python**, **Java**, **JavaScript**.



## Contact



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## Skills

- **Languages:** **Python**, **Java**, **JavaScript**
- **Machine Learning:** **NumPy**, **Pandas**, **PyTorch**, **Scikit Learn**, **Matplotlib**
- **Backend:** **FastAPI**, **Spring Boot**, **Spring Cloud**
- **Frontend:** **ReactJs**, **Vue**, **Three.js**, **Playwright**
- **Infra-Architecture:** **Redis**, **MySQL**, **PostgreSQL**, **MongoDB**, **RabbitMQ**, **Celery**, **Nginx**, **Docker**, **ClickHouse**



## Projects

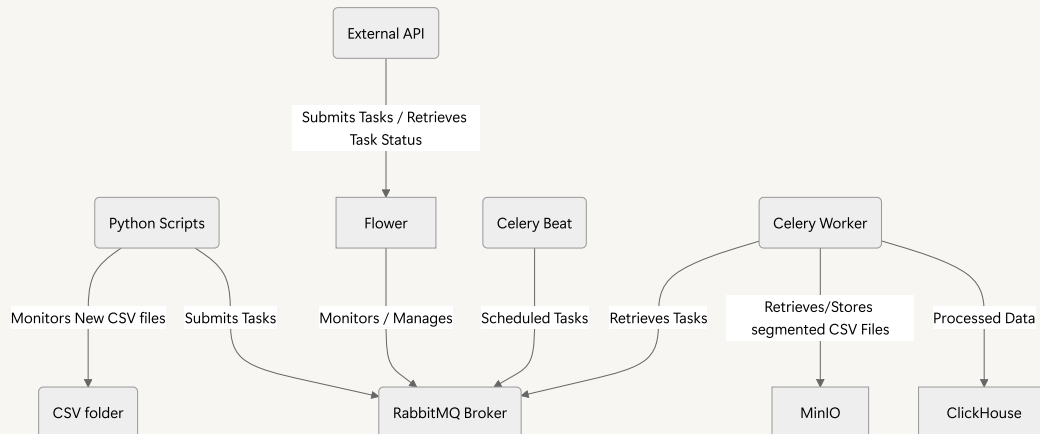
### Flying Training Metrics Calculation System - (November 2024 - Present)



**Python**, **MinIO**, **RabbitMQ**, **MySQL**, **ClickHouse**, **Celery**, **Docker**

**Objective:** Calculates flying training metrics for hundreds of thousands flying simulation records in CSV format(like black box recordings, 40MB around per file)

Designed and implemented a distributed flying training metrics calculation system using **Celery** to fulfill the objective. The architecture as below:



## BIM Lightweight Platform - (July 2019 - March 2023)

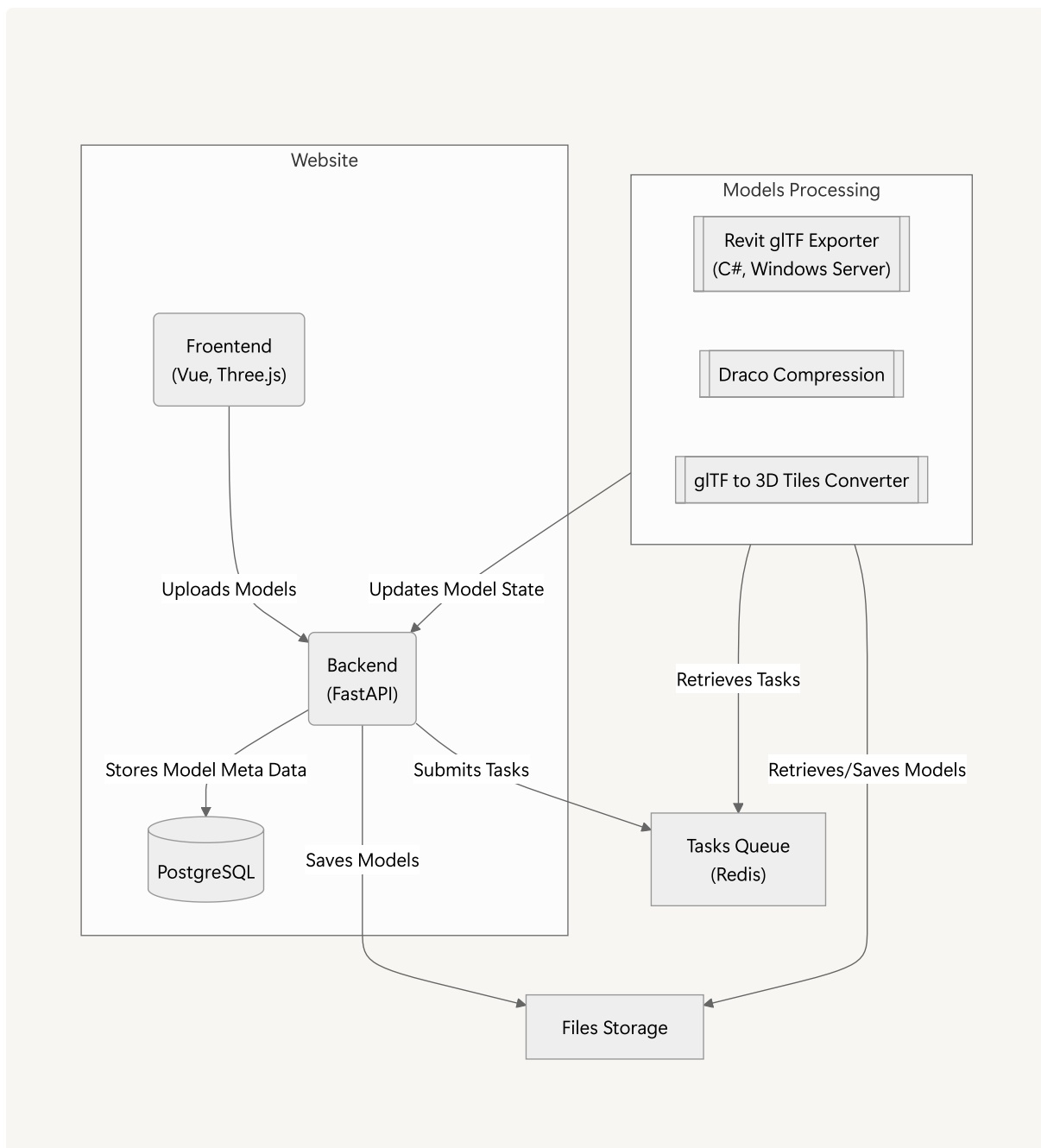
📁 **C#** , **Python** , **FastAPI** , **JavaScript** , **Vue** , **Three.js** , **Redis** , **glTF** , **3D Tiles** , **Docker**

**Objective:** Reuse BIM models (built by Revit) in variant scenarios - web, AR/VR.

Built following applications :

1. Exports RVT models to glTF models - **C#**
2. Compresses glTF with Draco - **C++**, **Draco**
3. Converts glTF models to 3D tiles models - **Python**
4. Web API for viewing glTF and 3D tiles models - **Javascript**, **Three.js**
5. Website for uploading RVT models and viewing glTF models - **Vue**, **FastAPI**, **PostgreSQL**
6. Connects above applications 1 - 5 with REST API and message queue - **Python**, **Redis**

The overall structure and processing flow as below:



## Chronos - *(January 2019 - June 2019)*



Java, Spring Cloud, Docker

**Objective:** Build a time management app for multi-platform and high concurrency.

Implemented a microservices system architecture.

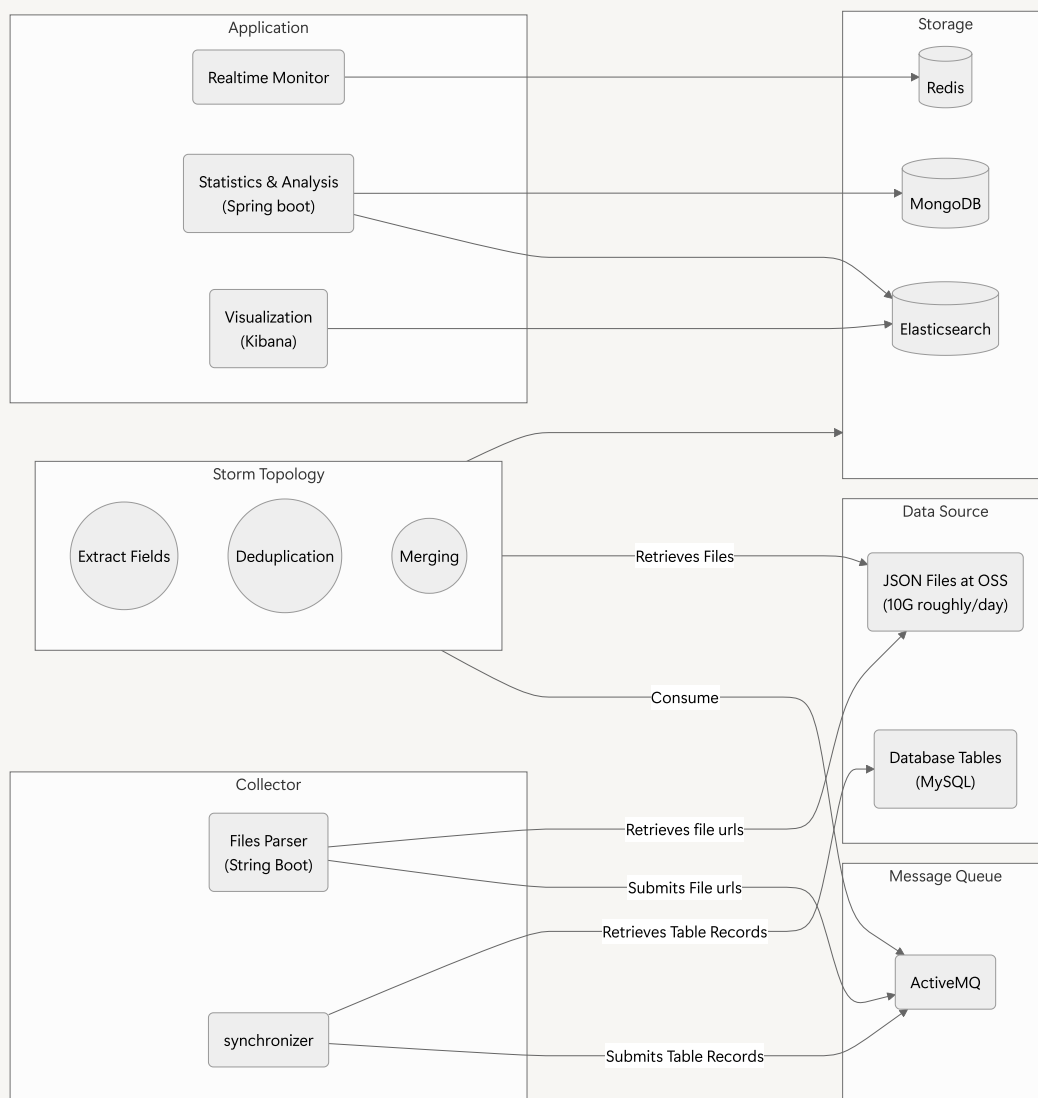
## Data Cleaning Pipeline - *(April 2017 - June 2019)*



Java , Docker , Elasticsearch , MySQL , MongoDB , Redis , Storm ,  
ActiveMQ

**Objective:** Cleaning data from variant data sources with different formats.

Built a data cleaning pipeline as below:



# Work Experiences

## **Kingpoint Data Technology Co.,Ltd. - (November 2024 - Present)**

### **Architect**

- *Designed and implemented a distributed flying training metrics calculation system using **CeLery** .*

## **Shengjie Transportation Technology - (July 2019 - March 2023)**

### **Technical Director**

- *Delivered a BIM (Building Information Modeling) model lightweight platform.*
- *Delivered 3D/VR applications and company websites.*

## **Doron Information Technology - (April 2017 - June 2019)**

### **Architect**

- *Delivered a data cleaning pipeline with Storm.*
- *Built the app “Chronos” with microservices architecture.*

## **Psychology 001 - (April 2015 - March 2017)**

### **Architect**

- *Refactored the existing platform with microservices.*
- *Built a full-text search system.*

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## **Languages**

- **Chinese**  - *Native speaker*

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## **Education**

**Guangdong Polytechnic Normal University - (2001.09 - 2005.07)**

## **Bachelor's Degree in Computer Science and Technology**