

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**



Projects

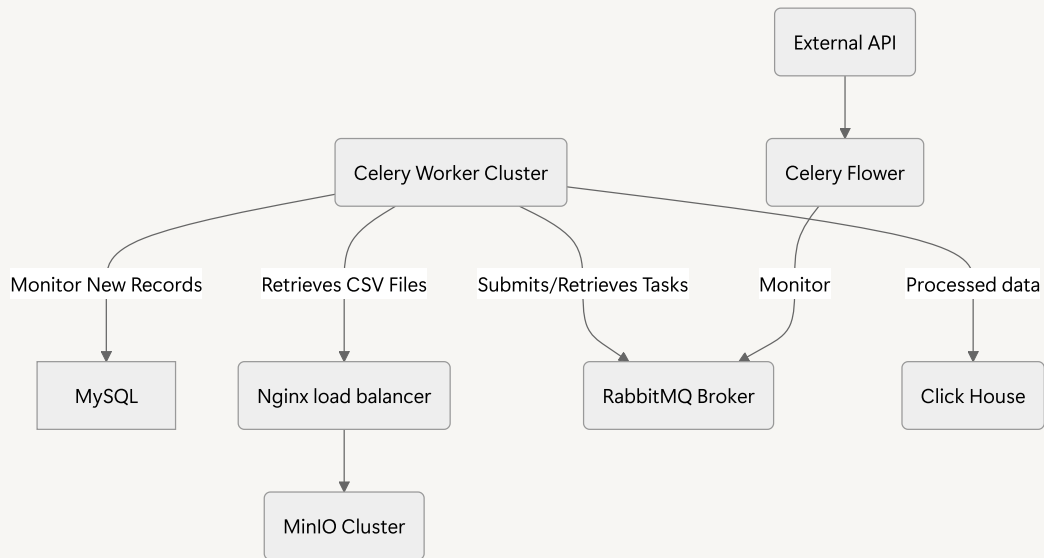
Flying Training Metrics Calculation System - (November 2024 - Present)



Python, **MinIO**, **RabbitMQ**, **MySQL**, **Click House**, **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)

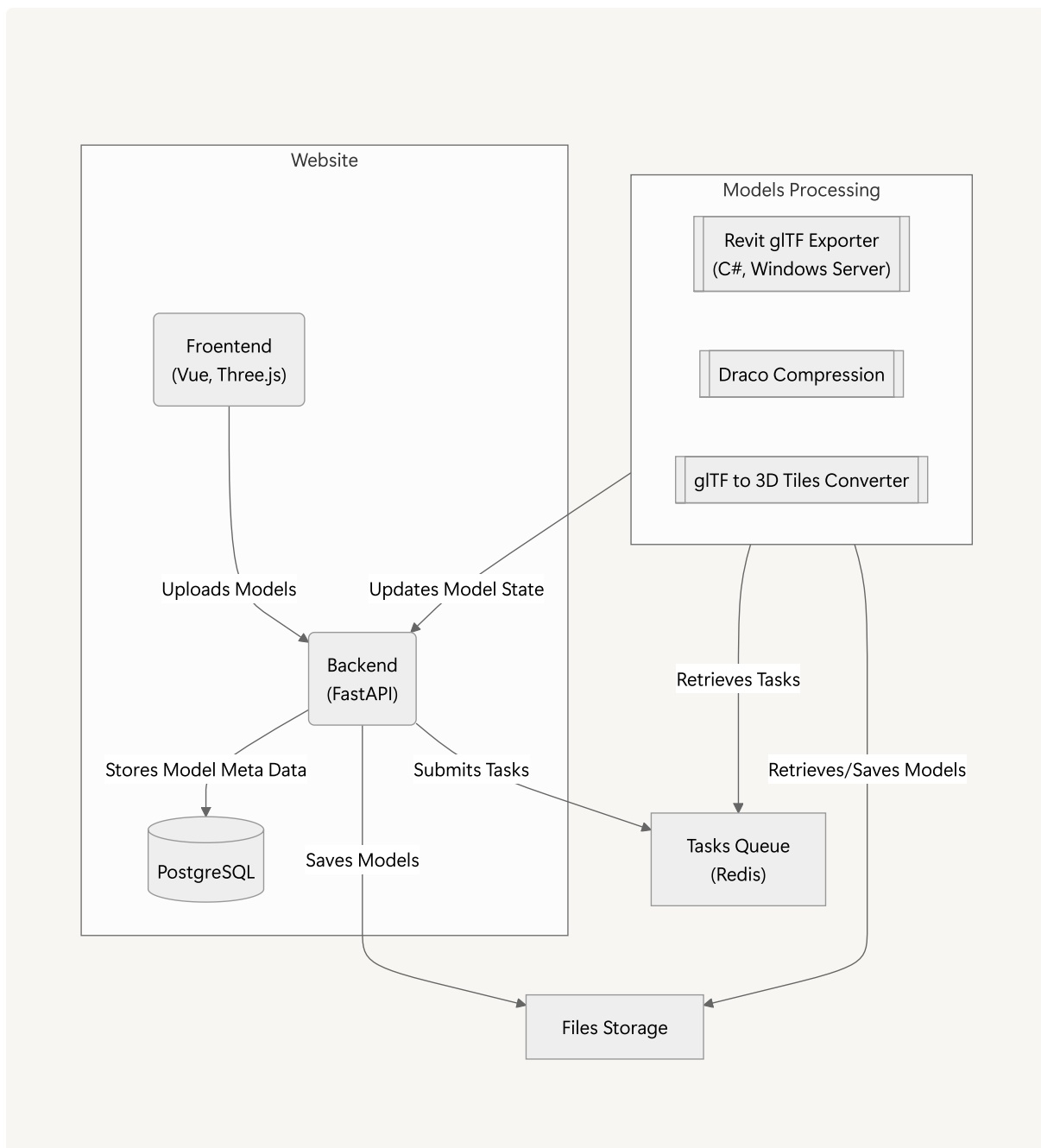
📌 **C#** , **Python** , **FastAPI** , **JavaScript** , **Vue** , **Three.js** , **Redis** , **glTF** , **3D Tiles** , **Docker**

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.

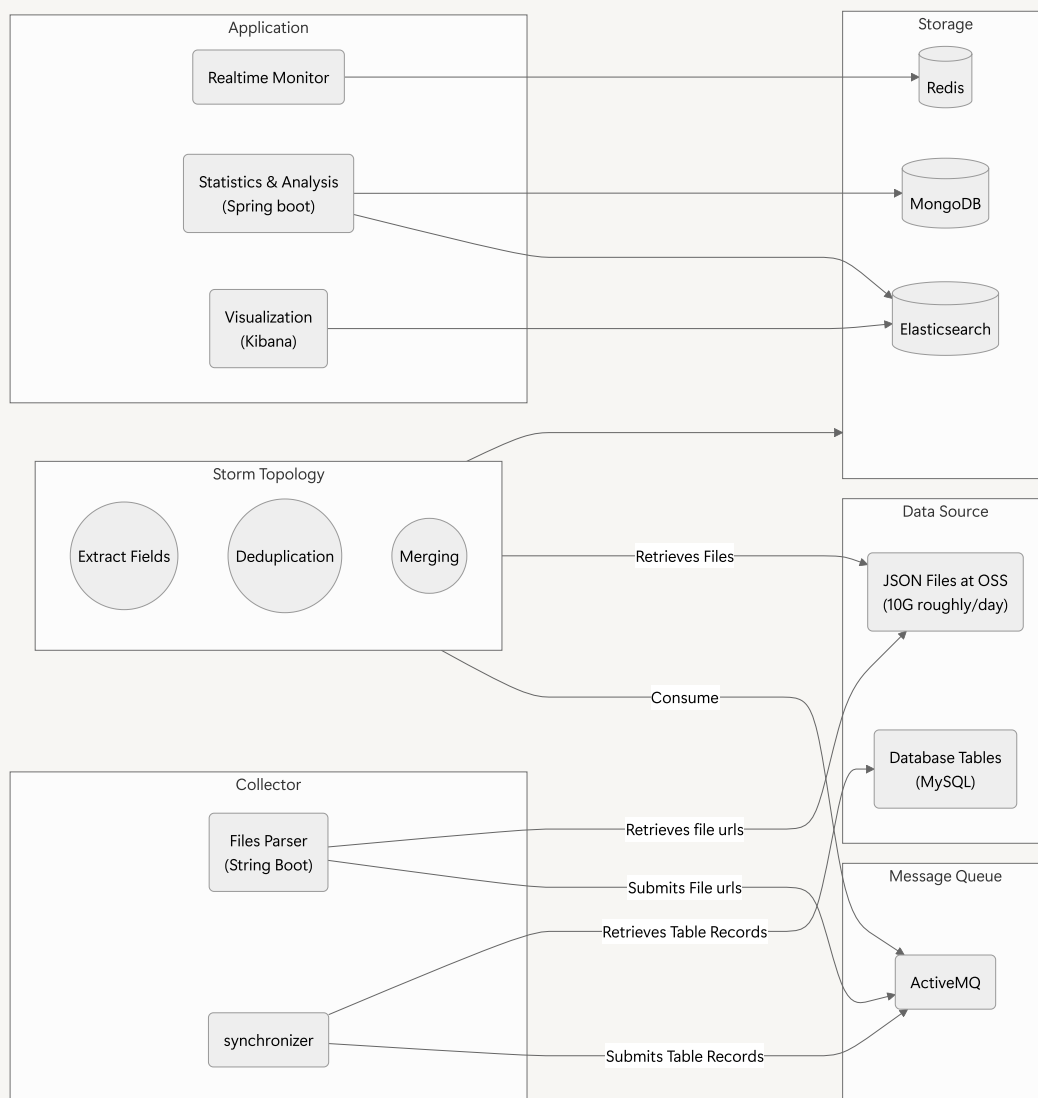
Data Cleaning Pipeline - *(April 2017 - June 2019)*



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.*



Languages

- **Chinese**  - *Native speaker*



Education

Guangdong Polytechnic Normal University - (2001.09 - 2005.07)

Bachelor's Degree in Computer Science and Technology