

# 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

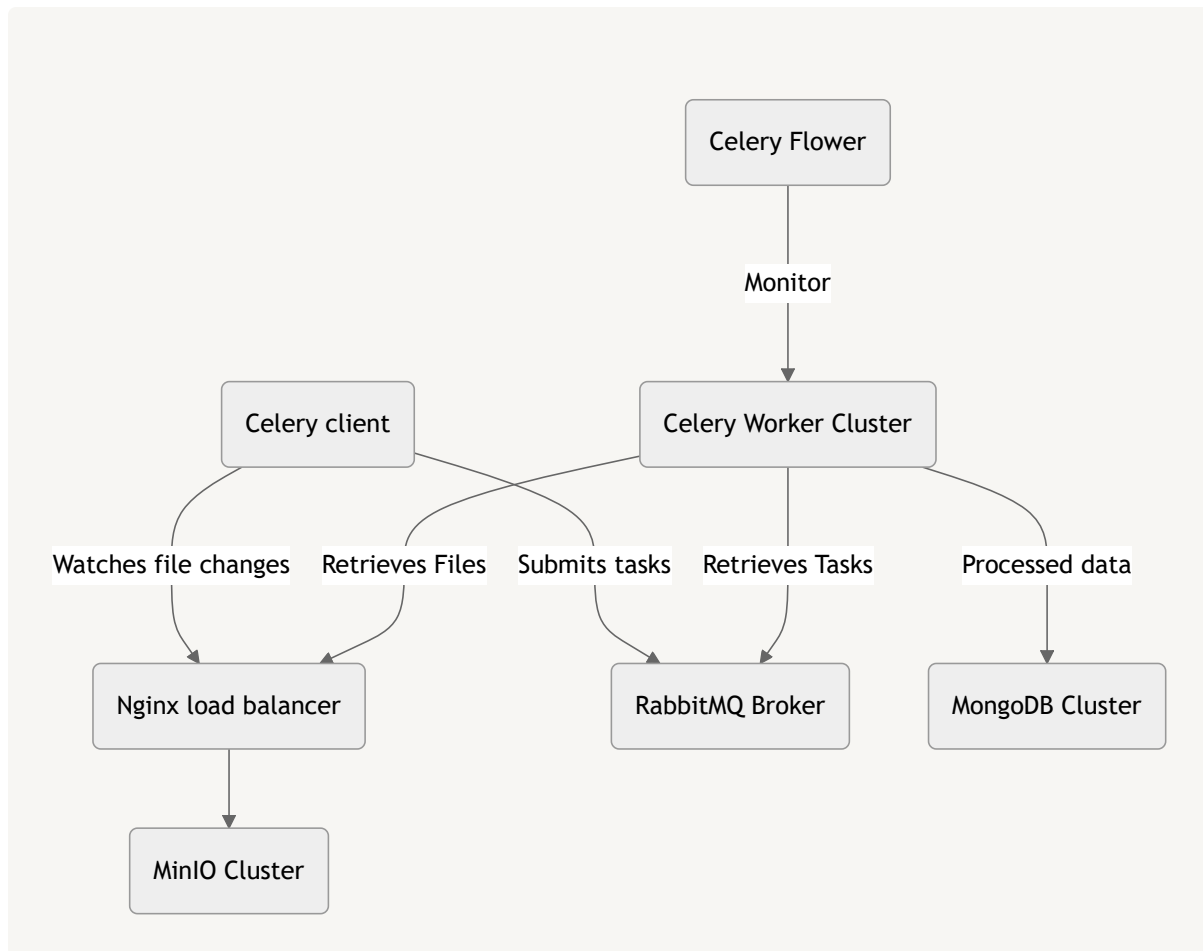
### Data Processing Pipeline - (November 2024 - Present)



**Python**, **MinIO**, **RabbitMQ**, **MongoDB**, **Celery**, **Docker**

**Objective:** Load hundreds of thousands CSV files(40MB around per file) from MinIO server, preprocess data and calculate metrics accordingly.

Designed a distributed data processing pipeline to fulfill the objective. The architecture as below:



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

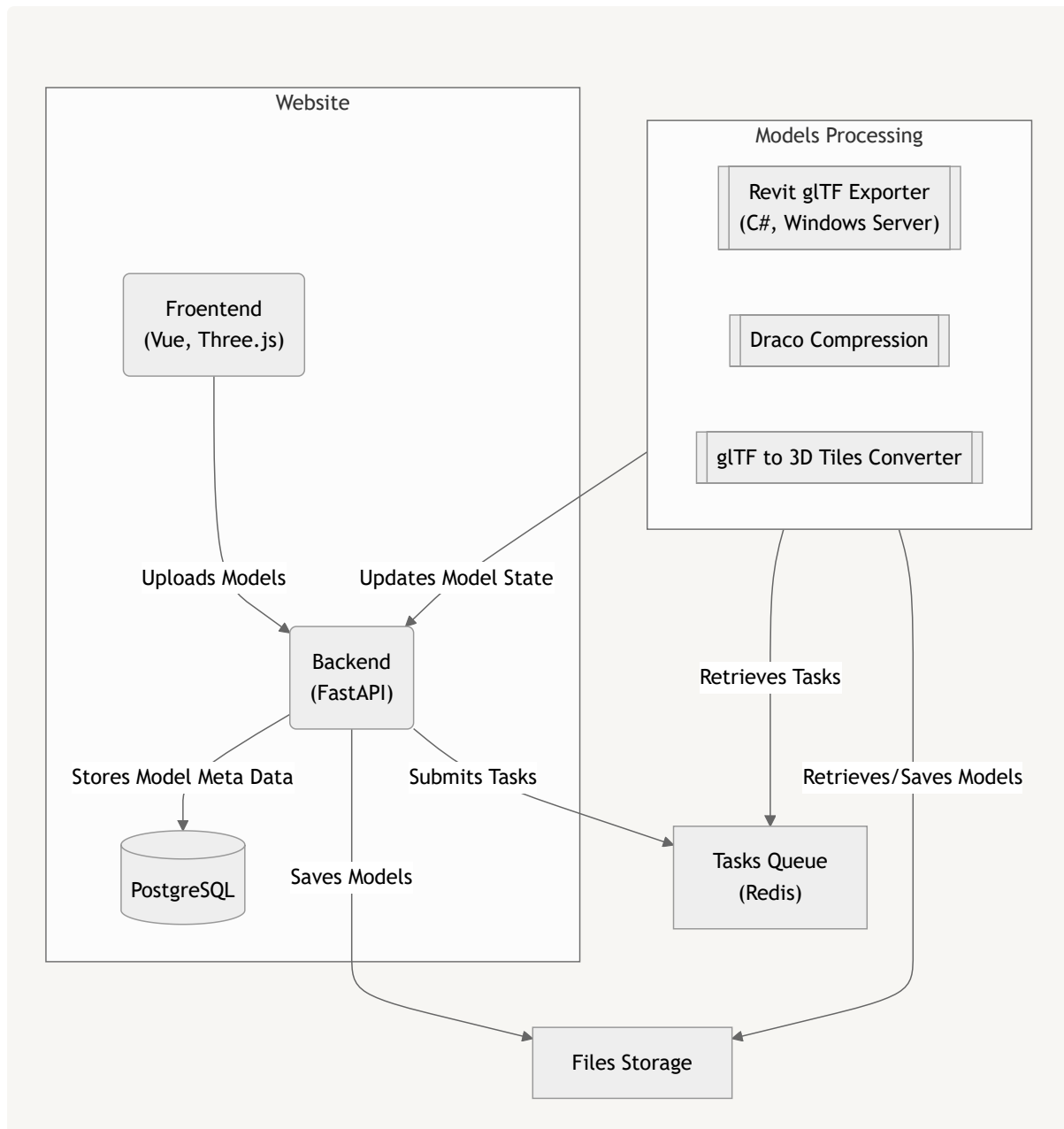
📁 C# , Python , FastAPI , JavaScript , Vue , Three.js , Redis , glTF , 3D Tiles , Docker

**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.

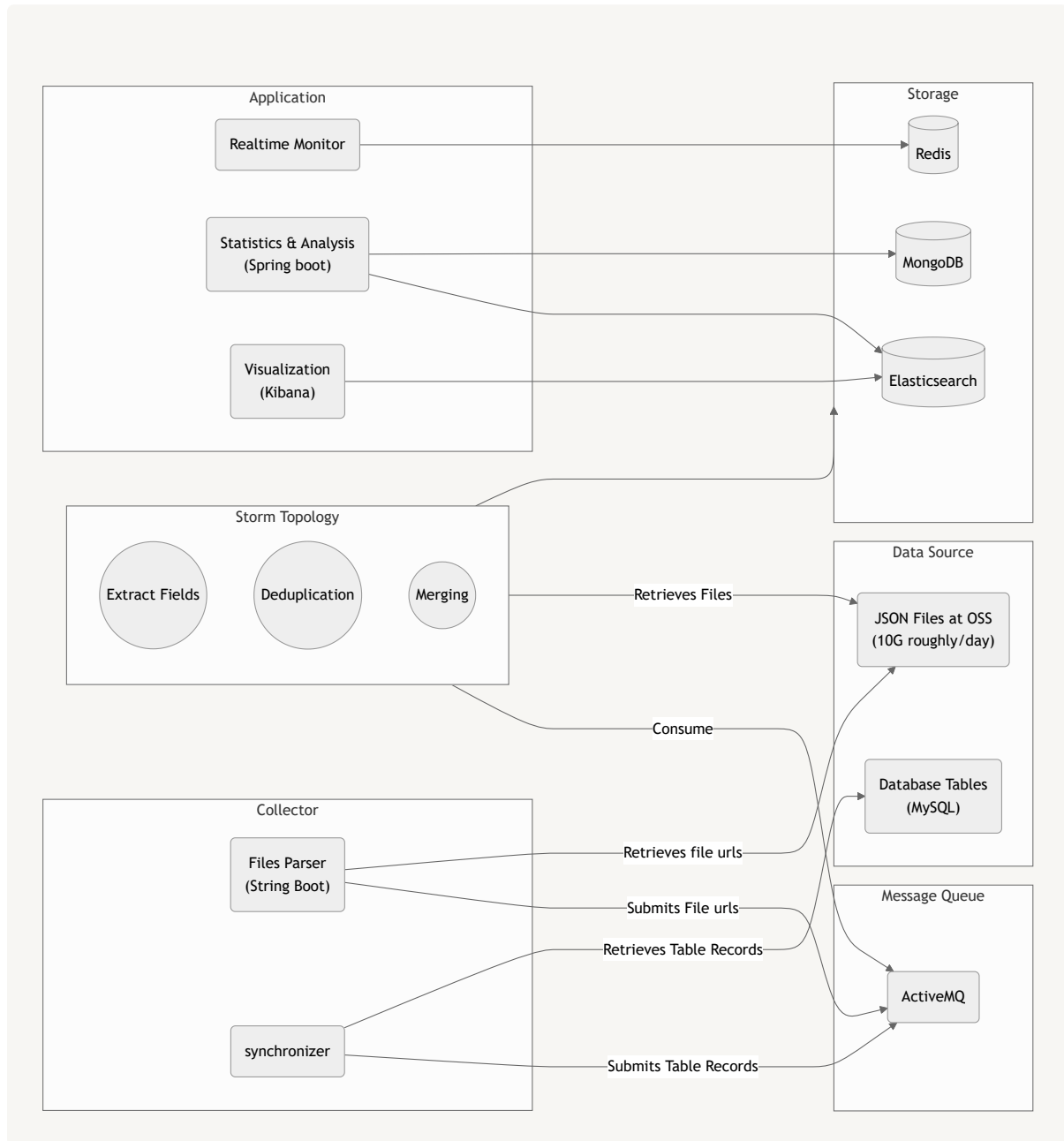
## Data Cleaning Pipeline - (April 2017 - June 2019)



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

## **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