

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`
- Database: `Redis` , `MySQL` , `PostgreSQL`
- Machine Learning: `NumPy` , `Pandas` , `PyTorch` , `Scikit Learn` , `Matplotlib`
- Backend: `FastAPI` , `Spring Boot` , `Spring Cloud`
- Frontend: `ReactJs` , `Vue` , `Three.js` , `Playwright`
- DevOps: `Nginx` , `Docker` , `Jenkins`



Projects

BIM Lightweight Platform - (July 2019 - March 2023)



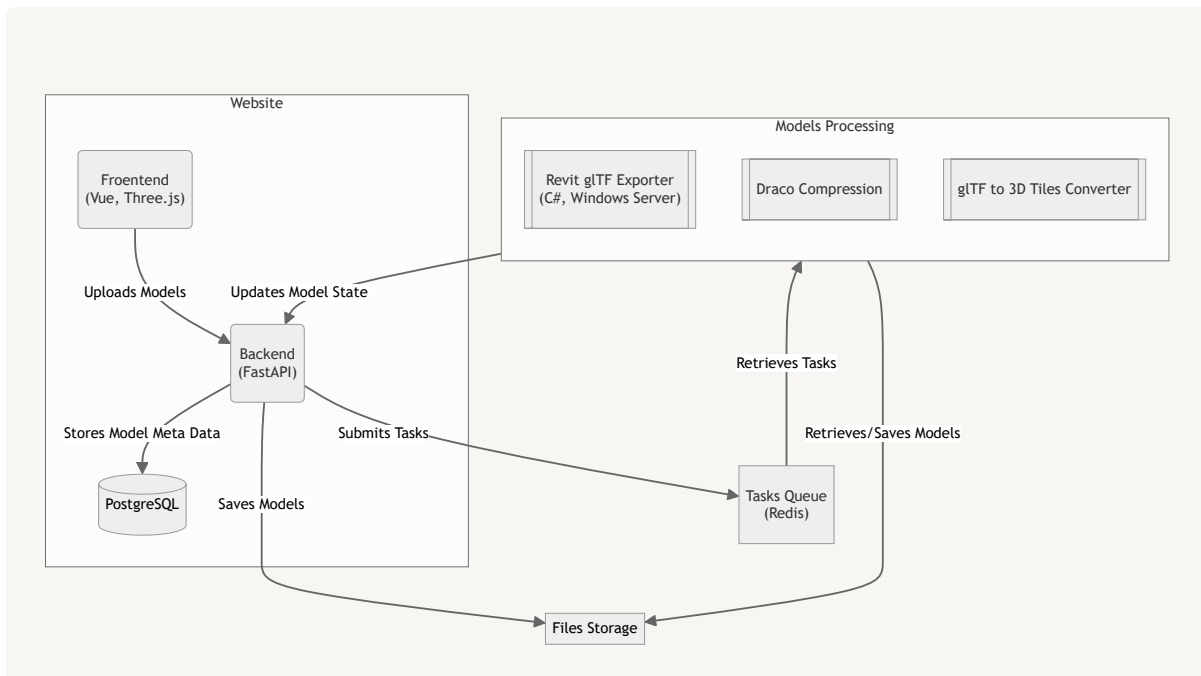
`C#` , `Python` , `FastAPI` , `JavaScript` , `Vue` , `Three.js` , `Redis` , `glTF` ,
`3D Tiles` , `Docker`

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: Built a time management app for multi-platform and high concurrency.

Implemented a microservices system architecture.

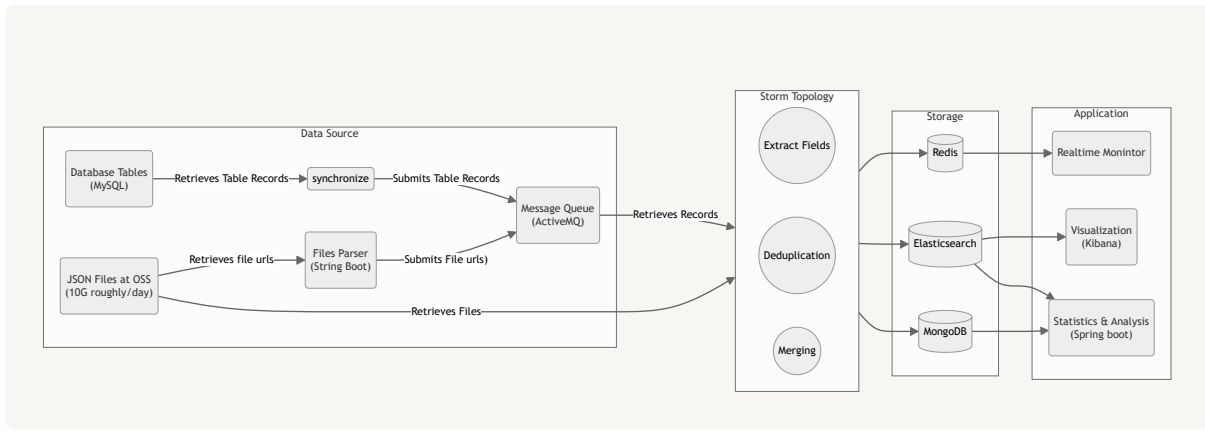
Data Cleaning Pipeline - (April 2017 - June 2019)



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.*

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