

JIAHUI WEI

PORTFOLIO

SELECTED WORKS • 2021 ~ 2025

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AIO SYSTEM

Corporate Case Presentation System

Develop a 3D visualization system using Unity, integrating interactive graphics and data visualization content to showcase the company's basic information and typical cases of more than 200 municipal water supply projects nationwide. Classify the cases according to categories such as water supply, sewage treatment, BIM + digital twin, etc. Split and demonstrate the key cases in an interactive way, such as through videos and text introductions. This system comprehensively presents the company's background and project capabilities in a visual manner, providing auxiliary support for market expansion.



DIGITAL TWIN

Sluice BIM 3D Visualization

The BIM 3D visualization project for water gates combines oblique photography real scene models with BIM models, and utilizes digital twin technology to achieve lightweight 3D visualization of water gates on B-end web pages. This enables dynamic interaction of BIM models, real-time viewing of business data, and seamless integration of virtual and real scenes.



After field investigation, I found that the real demand of users is to see the simulation scene reflecting the real situation of the sluice gate on the computer. After analysis, the requirements were decomposed into achievable functions and a function list and mind map were created.

Designed a product prototype based on the sorted function list, and added a detailed description to generate a PRD (Product Requirements Document).

The product prototype clearly demonstrates all the functional logic of this project, including real-time data interaction, roaming inspection, layer switching, model interaction, etc.



左侧基础信息、实时数据、泵组状态逻辑:

功能模块	功能描述	逻辑关系
基础信息	水闸名称: 外高桥泵闸 建造年份: 公元1995.9.1 水闸类型: 泵闸 水闸功能类型: 引排结合 管理类型: 区管水闸 门型: 平面闸门 闸门总宽 (m): 12 闸门孔数: 1 过闸流量 (m³/s): 80 启闭方式: 卷扬式 管理单位: 浦东新区水闸管理事务中心	基础信息
实时数据	内河水位: 2.10m 外河水位: 1.89m 节制闸门开度: 0.2m	实时数据
泵组状态	水泵1: 开启 水泵2: 开启 水泵3: 开启 水泵4: 开启	泵组状态

基础信息:

水闸名称 ("stStationName") 建造年份 ("stConstructionYear")
水闸类型 ("stSluiceType") 水闸功能类型 ("stFunctionType")
管理类型 ("stManagementType") 门型 ("stDoorType")
闸门总宽 ("nmGetWidth") 闸门孔数 ("nmHoles")
过闸流量 ("nmDischarge") 启闭方式 ("stGatehoistMode")
管理单位 ("stManagementUnit")
泵型: 卧式轴流泵 扬程(m): 2.7 单机流量 (m³/s): 7.5
总装机流量 (m³/s): 30 总装机功率(kw): 4x450kW
水闸安全鉴定等级: 二类 项目经理: 曹彬 应急人员: 黄永华
黑色字体为接口部分, 设备名称: "stSite"设施名称: "stComponent"+ "stSite" + "stBuildSite"
白色字体为读取本地文件部分

实时数据:

内河水位 (WGQBZ_112_SW_NHSW)
外河水位 (WGQBZ_112_SW_WHSW)
节制闸门开度 (WGQBZ_112_DOOR_SLUICE_KD)

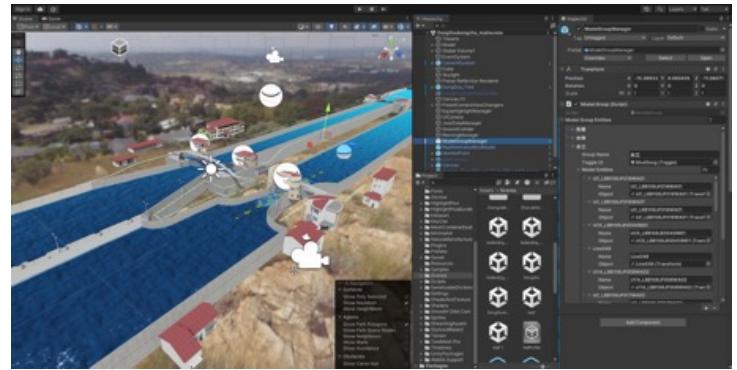
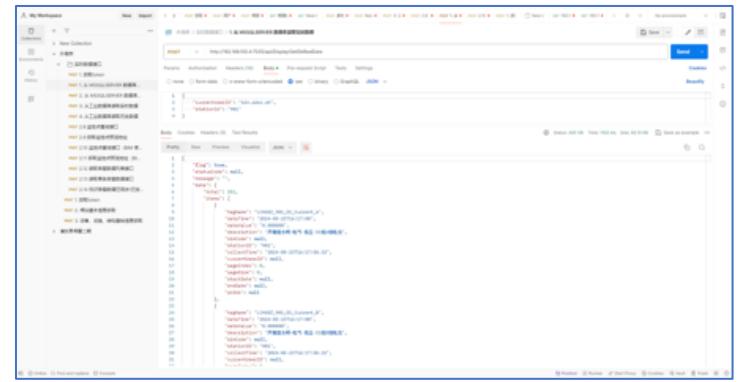
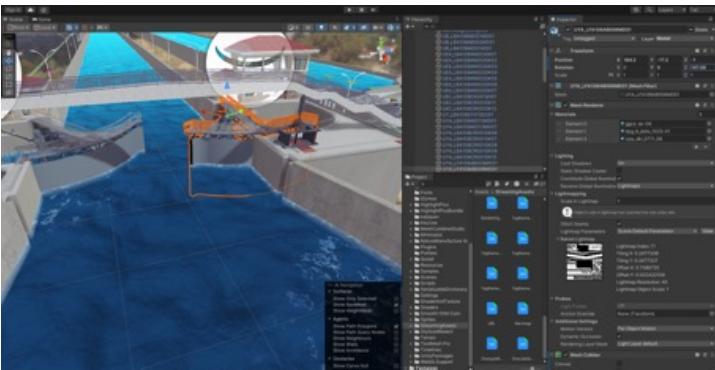
泵组状态:

水泵1 (WGQBZ_112_PUMP_ZLB1_ZT)
水泵2 (WGQBZ_112_PUMP_ZLB2_ZT)
水泵3 (WGQBZ_112_PUMP_ZLB3_ZT)
水泵4 (WGQBZ_112_PUMP_ZLB4_ZT)

按专业分类控制显隐逻辑:

1. 设备/设施下分别有不同的专业:
设备: 电气专业、水机专业、金属结构
设施: 建筑结构、水工结构
2. 默认进入页面时全部为显示状态, 可以点击将一个或多个类别隐藏;
3. 无论当前处于设备台账或设施台账, 均可对所有类别进行显示隐藏; 当处于设备台账时, 只会隐藏设备, 对于设施台账时, 只会隐藏设施, 点击台账时, 只有显示的类别中的设备/设施能点击成功, 隐藏的类别点击台账无反应

During the project, I also undertook some development work, obtained complete data through the data interface, organized the required data into JSON files, and wrote some configuration files that developers need to use, such as mapping the actual water level and gate switch height in the real physical world through functions in the model. In addition, I adjusted the model and parameters in the Unity development tool to meet the requirements of model classification and other functions.



SMART WATER STEWARD

Sewage Operation Management System



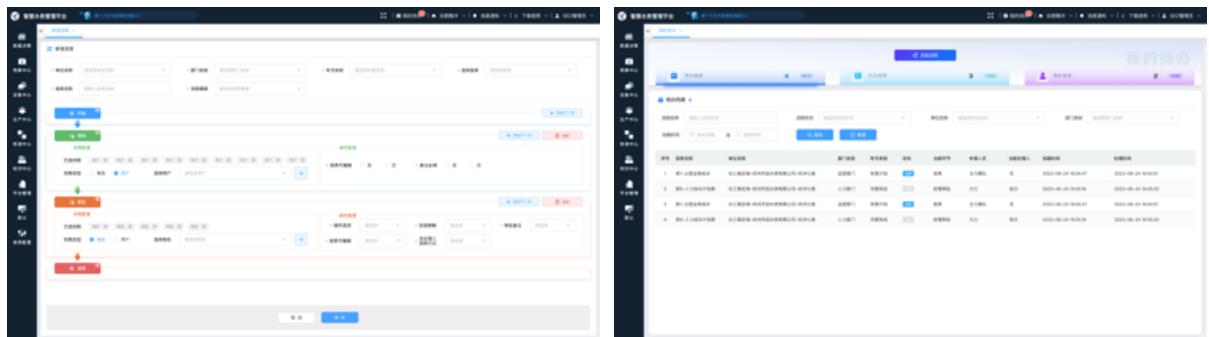
The water plant operation management system provides an intelligent management platform for the comprehensive management of key business such as profit, income, cost, operation, assets and personnel, and carries out centralized management, statistical analysis and data mining of relevant data in the water plant, thus forming a complete urban sewage treatment information integrated management solution.

sample reports

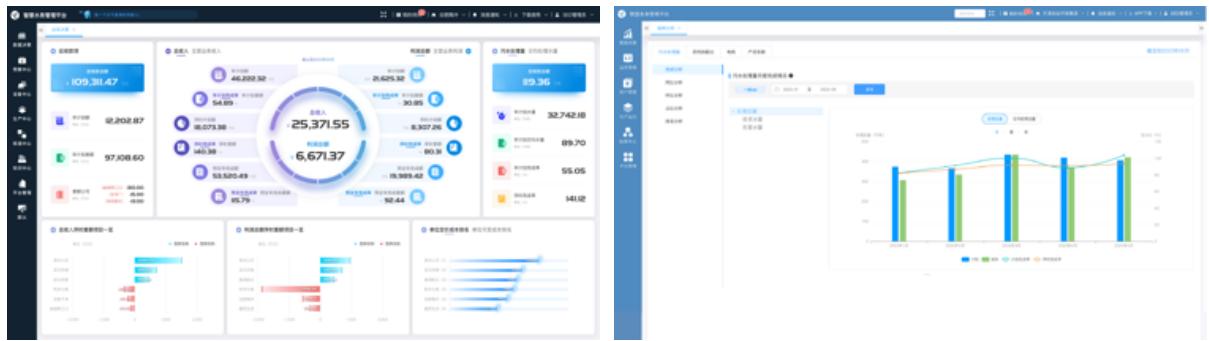
类别	项目	单位	合计	1月	2月	3月	4月	5月	6月	7月	8月	9月	10月	11月	12月
电费	电耗	度/吨													
	电价 (不含税)	元/度													
	投配比	mg/L													
除锈药剂费	单价 (不含税)	元/吨													
	阴PAM投配比	mg/L													
	单价 (不含税)	元/吨													
消毒药剂费	投配比	mg/L													
碳源药剂费	单价 (不含税)	元/吨													
	投配比	mg/L													
其他药剂费	单价 (不含税)	元/吨													
污泥运输处置费	万砘水绝干泥产泥系数	吨/万吨													
	污泥含水量	%													
	处置单价	元/吨													
	运输单价	元/吨													

After conducting research on the needs of personnel in different departments, more than 80 reports have been designed to cater to the specific requirements of each department, encompassing tens of thousands of fields.

By establishing a standardized process for filling out and approving online reports, data can be stored in the database through collaboration with multiple departments.



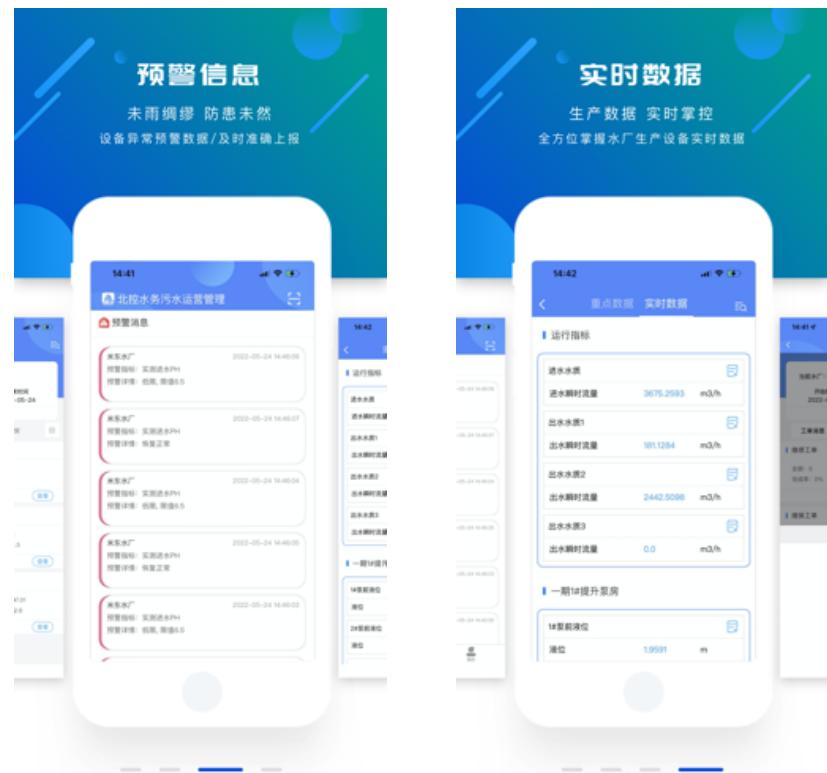
Designed and implemented a self-service BI portal for different users and roles to achieve comprehensive data statistics and aggregation, and formed data isolation to ensure data security, facilitating decision-making groups to quickly understand department operations and key data indicators.



Collaborated with data engineers to design database table structures, assist in writing and optimizing complex SQL queries and views for building reports and dashboards.



In addition to the PC end, an APP end function has also been designed, APP is used by users for information reception, data filling, process approval, etc., enabling multi end collaboration between mobile and PC, forming a logical closed loop and convenient and efficient work at all levels, achieving timely business data queries and business work processing.



Smart Water Blueprint

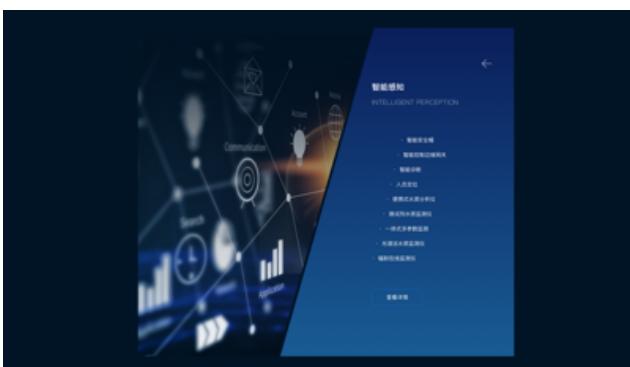
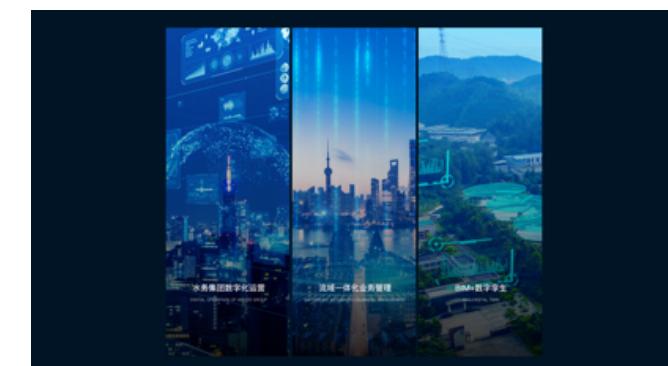
Company website design

The company's official website, as an important window and interactive platform for the public, plays a role in showcasing the company's strength, spreading corporate culture, and providing high-quality product and service information.

I was responsible for leading the overall design and content display of the official website, working with UI designers and pre-sales teams to divide it into several parts: homepage introduction, solutions, core products, successful cases, and contacting us. This structure gradually guides users to understand the company's overview, core products, and advantages in order, and leaves a window for guiding transformation.

The overall style is close to the positioning of the company's water technology company, with a technology style dominated by blue as the main color. The front-end technology implementation balances the presentation effects of both PC and APP ends.

Since the official online line, the number of people who follow the company's WeChat official account through the official website portal has increased by about 70%.



The Voice of Cyberwater

Company WeChat Official Account Operation

The company's WeChat official account is an important way for users to get the latest trends, product information and major achievements of the company at the first time.

During the period when I was responsible for managing the official account, I made it clear that the target audience was water industry practitioners, carried out user portrait analysis, determined the positioning of the official account and ensured that the content was regularly released and targeted. My colleagues and I work together to write articles and independently complete typesetting that suits the theme style based on different contents.



案例分享

[订阅](#)

北京云建标科技有限公司
4篇内容

正序

云建标CWPilot防汛调度系统助力秦皇岛区域公司完成强降雨应对
2023/08/02 阅读 151

CWVisual助力环球影城水环境运维智慧化
2023/07/18 阅读 60

天津创业环保南部区域公司智慧水务平台
2023/06/01 阅读 396

以“数字孪生”打造新一代未来水厂
2023/02/20 阅读 885

企业资讯

[订阅](#)

北京云建标科技有限公司
7篇内容

正序

云建标与芒果传感签署股权合作协议
04/10 阅读 68

产品化合作再添新友
04/09 阅读 130

云建标开启产品合作新模式
04/04 阅读 133

九年沉淀磨一剑，云建标CW-Cloud亮相《中国给水排水》武汉论坛
04/03 阅读 268



During the operation of my official account, due to the release of high-quality content, the number of readers and followers of official account showed a substantial increase, about **400%** more than the previous official account articles, and about **200%** more than the number of followers.



I have also created two collections: case sharing and enterprise information, which are used to regularly share some excellent project cases from the past and recent company developments such as equity cooperation and participation in exhibitions, in order to enhance the company's visibility and promote product or service sales. And summarize and organize the company's past published works, making it easy for users to quickly find the target content.

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