

# HONGTAO ZHANG

✉ hzhang784@wisc.edu · ☎ (608)960-6817 · in hongtao · Github: taooceros

## 🎓 EDUCATION

### University of Wisconsin Madison

Madison, WI, 12/2024

B.S. in Computer Science, Mathematics, Statistics, Data Science · *L&S Honors*

GPA: 4.0/4.0.

## 👤 EXPERIENCE

### Flow Launcher | Github Open Source Project 1.8k ★

10/2020 – Present

C# (.Net Core) Member

A plugin-driven launcher for Windows that help users to quickly launch apps, explore file/folder, and customizable functionalities with plugins.

- Re-architected and optimized data transmission mechanism to allow large scale handling (1M+)
- Redesigned communication protocol with plugins written in other language with JSONRPC Protocol.
- Rewrote plugin co-routine model and Revised Asynchronous Events system
- Rewrote UI Component with WPF MVVM
- Expanded 20+ External API
- Constructed and Managed the Translation CI/CD *Crowdin*
- Organized the community
- ★ increased from 180 to 1.8k

### Flow Launcher Docs

05/2021 – Present

Document Websites for Flow Launcher

- Wrote document and tutorial for .Net plugin development
- Generated API Reference Page
- Reorganized sidebar and Redesigned styles

### Flow Launcher PluginsManifest

01/2021 – Present

Plugin Management Repository for Flow Launcher

- Designed the CI/CD with *Github Action* to auto fetch plugin update information
- Managed the new plugin submission process

### Flow.Plugin.WindowWalker

01/2021 – Present

C# (.Net Core), Maintainer

A Plugin of Flow Launcher to switch between opened windows.

- Constructed CI/CD with *Github Action* (widely used in other plugins)
- Improved Performance by 30%
- Expanded Features

### VMWalk

06/2020 – 01/2021

HTML/CSS/JavaScript/C# Individual Project, collaborated with in Jeffrey Yu and in Peng Qiu

A peer-review platform for teachers and Courses for Vanke Meisha Academy.

- Implemented the BackEnd Restful API *ASP.Net Core* and User Management System (JWT)
- Constructed and Managed the Database *MS-SQL*
- Implemented FrontEnd UI/UX Based on *Layui*
- Optimized FrontEnd Performance and Front-Back Communication *JQuery*

## ⚙️ SKILLS

- **Programming Languages:** C, C++, Python, Java, Go, JavaScript, TypeScript, R, Matlab, HTML, CSS,  $\LaTeX$
- **Framework & Tools:** ASP.NET Core, Blazor, WPF, Sql-Server, Vue.js, React.js, Chakra UI, Qt, Node, Express.js, Django, Flask, Graphene, SQLAlchemy, Web Crawler, Pandas, Jupyter, Axios, JQuery, Nginx, Unicorn