

Zi-Cheng Huang

Digital Operations & Workflow Automation Specialist

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GitHub

<https://github.com/johnny60904/>

Portfolio

<https://johnny60904.github.io/landx-portfolio/>

Professional Summary

Digital Operations professional with 12+ years of frontline retail operations experience, specializing in workflow improvement, process standardization, and operational efficiency enhancement. Experienced in managing daily operations within high-volume environments, handling customer-facing challenges, and maintaining stable execution through structured procedures.

Recently focused on workflow automation, software engineering concepts, and Generative AI collaboration. Experienced in developing PowerShell Core automation tools, researching software architecture patterns, and applying structured problem-solving methods to improve repetitive processes and operational workflows.

Combining practical business operations experience with technical self-learning, I bridge the gap between real-world operational needs and digital solutions. Skilled at analyzing existing workflows, identifying improvement opportunities, and designing practical tools that enhance reliability, consistency, and efficiency.

Seeking opportunities in Digital Operations, Workflow Automation, Business Process Improvement, or Operations Support roles, where operational experience and technical capabilities can contribute to building more efficient and sustainable business workflows.

Core Competencies

Digital Workflow Optimization & AI Collaboration

- Experienced in applying Generative AI tools to information organization, document preparation, knowledge management, and workflow improvement.
 - Skilled in structured problem analysis, information validation, and iterative refinement to improve accuracy and execution quality.
 - Able to integrate digital tools into daily operations to reduce repetitive tasks and improve workflow consistency.
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Workflow Automation & Tool Development

- Experienced in developing PowerShell Core automation tools for cross-platform workflow improvement and operational efficiency.
 - Familiar with input validation, error handling, process control, and defensive programming concepts to build reliable automation solutions.
 - Capable of translating operational needs into practical tools that reduce manual effort and improve process stability.
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System Analysis & Process Improvement

- Familiar with software design concepts including Object-Oriented Design, Clean Architecture, Domain-Driven Design (DDD), and modular system design.
 - Skilled in breaking down complex workflows into clear structures, responsibilities, and improvement opportunities.
 - Experienced in independent technical research and project implementation focused on automation, system boundaries, and maintainable solutions.
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Technical Skills

Programming Languages:

Java · C# · PowerShell Core · JavaScript · TypeScript

Automation & Testing:

PowerShell Automation · Workflow Automation · Playwright E2E Testing

Development Tools & Infrastructure:

Git · GitHub · Nginx · REST API Fundamentals · OAuth Fundamentals

Software Engineering Concepts:

Clean Architecture · Domain-Driven Design (DDD) · SOLID Principles · Modular Design · Code Refactoring

Professional Experience

FamilyMart

Senior Store Associate

Served as Acting Store Manager for a Franchise Store

March 2010 – March 2026 | 12+ years

Core Responsibilities

- Managed daily retail operations including inventory control, merchandise replenishment, cash reconciliation, customer service, and execution of standard operating procedures (SOPs).
 - Supported staff training, shift scheduling, operational coordination, and store management activities, including serving as Acting Store Manager for a franchise location.
 - Participated in new store openings, store closures, audit preparation, and cross-store operational support across more than 30 stores with diverse business formats.
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Professional Highlights

- Developed strong operational judgment and crisis-handling skills through long-term experience in high-volume retail environments.
 - Adapted quickly to a wide range of store types, including transportation hubs, headquarters-operated locations, and concept stores, while maintaining consistent operational standards.
 - Continuously combining frontline operational experience with independent research in software engineering, workflow automation, and AI-assisted productivity to build a process-improvement mindset.
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Selected Digital Transformation Projects

Legacy Platform ACL

Legacy System Integration & Architecture Improvement

Independent Developer

GitHub:

<https://github.com/johnny60904/java-legacy-platform-acl/>

Project Overview

Research project focused on improving maintainability of legacy systems through boundary isolation, modular design, and structured data transformation approaches.

Key Contributions

- Developed a Java 21 Anti-Corruption Layer (ACL) prototype to isolate legacy data structures from modern application logic.
- Applied Clean Architecture, Domain-Driven Design (DDD), and modular design principles to improve separation of responsibilities.
- Designed validation and transformation workflows to reduce the impact of unstable external data on core application logic.

Cross-Platform File Automation Tool

PowerShell Core Workflow Automation Independent Developer

GitHub:

<https://github.com/johnny60904/get-files/>

Project Overview

Developed a cross-platform PowerShell Core automation tool to improve file management workflows and reduce manual processing effort.

Key Contributions

- Built an automation utility supporting file processing workflows across Windows, Linux, and macOS environments.
 - Implemented input validation, error handling, and path verification mechanisms to improve operational reliability.
 - Explored scalable file-processing approaches with a focus on maintainability and stable execution.
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PowerShell AST Class Loader

Static Analysis & Automation Research Project Independent Developer

Project Overview

Research project exploring dependency management challenges in large PowerShell automation environments through syntax analysis and automated loading strategies.

Key Contributions

- Utilized Abstract Syntax Tree (AST) analysis to inspect script structures without executing target code.
 - Developed dependency analysis logic to improve maintainability of large script-based projects.
 - Investigated applications of static analysis techniques for automation workflows and future CI/CD integration.
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JSON Safe Converter

Data Validation & Serialization Safety Research Project Independent Developer

Project Overview

Research project focused on improving JSON data processing reliability through structured validation and defensive programming techniques.

Key Contributions

- Designed validation concepts for controlling data depth, size, and structural complexity.
- Explored defensive programming approaches for handling uncertain external data inputs.
- Investigated methods to reduce system resource risks caused by abnormal data processing scenarios.

Education & Continuous Development

Independent Technical Research & Digital Workflow Application Practice Continuous Professional Development

October 2025 – Present

Software Architecture & Workflow Automation Research

- Continuously study modern software engineering concepts, including Object-Oriented Design principles (SOLID), Clean Architecture, Domain-Driven Design (DDD), modular design, and software refactoring methodologies.
- Develop practical automation tools and experimental projects to explore workflow optimization, system boundary design, data validation, and maintainable software structures.
- Build hands-on experience with Git/GitHub version control, PowerShell Core automation, Java development, C# development, and technical documentation practices.

Generative AI Collaboration & Workflow Improvement Research

- Research practical applications of Generative AI in information organization, document preparation, problem analysis, and knowledge management workflows.
 - Develop structured prompting methods, multi-round validation processes, and information refinement workflows to improve AI-assisted productivity and output reliability.
 - Explore the integration of AI tools into business process improvement, administrative efficiency enhancement, and digital transformation support scenarios.
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Academic Background

New Taipei Municipal Jui-Fang Industrial High School Department of Civil Engineering

- Developed foundational engineering thinking through structural analysis, spatial reasoning, and problem-solving methodologies.
 - Applied structured thinking approaches from engineering education into workflow analysis, system design, and complex problem decomposition through professional experience and continuous self-learning.
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Portfolio & Technical Work

GitHub

[GitHub Profile](#)

Source code repositories, automation experiments, software architecture studies, and independent technical research projects.

Portfolio Website

[LanDX Portfolio](#)

Digital portfolio showcasing workflow automation projects, software architecture research, and AI-assisted creative works.