

# Wenyi Qian

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## WORK EXPERIENCE

### JiangSu ZhongMingHuiYe Technology LTD

Wuxi

SOFTWARE ENGINEER, SOFTWARE DEVELOPMENT DEPARTMENT

September 2022 - March 2023

- Led development of the "Smart Community Management Platform" leveraging IoT sensors to monitor community activities, reducing incident response times by 20% and enhancing public safety
- Designed and executed a foundational data system with four key identifiers (people, places, events, objects), revising real-time data accuracy by 30% and enhancing community safety

### Microsoft

Shanghai

SOFTWARE ENGINEER INTERN, LINUX SYSTEM GROUP

May 2021 - August 2021

- Enhanced development and optimization of Linux Integration Services Automation (LISA) by implementing advanced text-processing techniques. Collaborated within a diverse, cross-functional team to ensure seamless feature integration and system performance improvements
- Revamped documentation system for LISA, categorizing readers (user/developer/test runner) and providing role-specific guides, reduced user onboarding time by 3 times (10s -> 3s) and advancing user satisfaction by 60%
- Integrated Sphinx and Read the Docs to automate and manage documentation site, simplifying manual maintenance time by 50% and improving documentation consistency across releases
- Devised CI/CD pipelines leveraging Abstract Syntax Trees (AST) to automatically fetch and update documentation changes, eliminating manual update errors and streamlining documentation process

### Lakecloud

Wuxi

SOFTWARE ENGINEER INTERN, SOFTWARE DEVELOPMENT DEPARTMENT

May 2020 - August 2020

- Constructed a web application for managing human and building resources on metro construction sites using the Springboot framework, improving resource management efficiency by 25%
- Automated web interface testing by creating a CI/CD pipeline, reducing manual testing time by 8+ hours per week and increasing testing efficiency by 35%
- Identified and remediated a vulnerability in employee ID system

## RELEVANT EXPERIENCE

### NIST GenAI

Carnegie Mellon University

BACKEND DEVELOPER

August 2024 - December 2024

- Developed and integrated backend services for an AI-driven solution automating NIST security control responses
- Ensured backend components were scalable and optimized for cloud deployment on AWS infrastructure
- Engineered a modular architecture, facilitating future system expansions and updates

### Labtool UI

Bucknell University

TEAM LEADER

August 2021 - December 2021

- Devised a cross-platform JSON editor app specialized for lab configurations, separating front-end (GUI) and back-end (editor) using Electron and Python, reducing manual configuration time by 50%
- Directed a 4-person team, utilized visual task tracking (Kanban board), boosting development efficiency by 30%
- Utilized modular design by creating a base module and implementing 5 advanced modules, increasing code reusability and decreasing future development time by 20%

## EDUCATION

### Carnegie Mellon University

Pittsburgh, PA

Master of Science in Information Technology – Information Security

December 2024

- Coursework: Information Security, Browser Security, Cyber Risk Modeling, Deep Learning, Natural Language Processing, Prompt Engineering, Advanced Real-World Data Networks

### Bucknell University

Lewisburg, PA

Bachelor of Arts in Computer Science & Linguistics

May 2022

- Coursework: Data Structures, Software Engineering & Design, Algorithms, Operating Systems, Image Processing

## SKILLS

**Coding languages:** Python, C, Java, JavaScript

**Frameworks/Tools:** Springboot, BeautifulSoup, Sphinx, Read the Docs, Pandoc, ast, NumPy, PyTorch, nltk, etc.

**Cloud/DevOps:** Cloud Services (AWS & GCP), Git, Linux, Docker, CI/CD Pipelines