Wenyi Qian

wenyiq@andrew.cmu.edu • 412-224-9048 • https://www.linkedin.com/in/wenyi-qian-821431290/

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, decreased 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 deploying Amplify

Labtool UI   Bucknell University
LEAD DEVELOPER   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, decreasing 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, TypeScript
Frameworks/Tools: Springboot, Beautiful Soup, Sphinx, Read the Docs, Pandoc, ast, NumPy, PyTorch, nltk, etc.
Cloud/DevOps: Cloud Services (AWS & GCP), Git, Linux, Docker, CI/CD Pipelines