

Bo-Sheng (Daniel) Ho

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Summary

Software QA & Automation Engineer specializing in the development of scalable unit testing frameworks and AI-powered debugging solutions. Strong experience in Python, Docker, and CI/CD pipelines, with a focus on optimizing AI inference workflows and automation for software testing.

Skills

- **Programming:** Python, C++, Shell Script
- **Testing & Automation:** Unittest, PyTest, GitLab CI/CD
- **AI Inference & Automation:** PyTorch, LangChain, OpenCV
- **DevOps & Tools:** Docker, Git, Jenkins, Ansible

Work Experience

Software Automation Test Development Engineer (RDSS) — NVIDIA

Dec 2024 - Current

- Develop automation test infrastructure for data center: custom CLI for machine management, SSH/Redfish/PDU operations, and log monitoring
- Built firmware stress dashboard: Google Sheets + CI integration, automated report generation, watchdog monitoring, and AI-powered failure pattern analysis
- Delivered AI-powered debugging tools: RAG-based bug search and ticket generation, and REST API for test result analysis with root cause suggestions and trend analysis
- Focus on system-level stability testing and AI-assisted test case generation

Advanced Robotic Platform Intern — ADLINK

Feb 2022 - Jun 2022

- Robot Application Software Development and Testing
- Creation and Maintenance of Product User Manuals

Projects

NewsBot AI — Automation Project

- Integrated AI-driven news summarization with Ollama and automated workflows with n8n
- Deployed the project using Docker, enabling easy scalability and maintenance

AnonymousMessage — Web Application Project

- Designed and implemented an anonymous messaging system with a user-friendly web interface
- Used Google Apps Script to handle form submissions and store data in Google Sheets

Worker-MCP — AI-driven Project

- Dockerized MCP Server for JIRA, Confluence, and internal bug/team data retrieval
- OAuth authentication and comment sanitization

Education

Master of Electrical Engineering — NTUST 2022 - 2024

Thesis: "Multimodal Image Dehazing with Zero-Shot CLIP Model"

Bachelor of Electrical Engineering — NTUT 2018 - 2022

Capstone: "Enhancing Automated Pain Detection in Laboratory Mice via Machine Learning"