

Houfu Chen

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Portfolio : houfu72.com GitHub : github.com/chf-NewStart

SUMMARY OF QUALIFICATIONS

- **QA & Automation Expertise:** Extensive experience in QA automation across 4 companies, proficient in Python, C, Selenium, and debugging.
- **ML & Data Analytics:** Hands-on experience with LLM APIs, Data Analytics, and AI-driven applications.
- **Technical Recognition:** Recipient of President's Research Award; Featured Alumni in Data Analytics & ML.
- **Teaching & Leadership:** Graduate TA for ML & Data Analytics, grading 1,000+ submissions.

EDUCATION

- **University of Toronto (UofT)** Toronto, ON
Master of Engineering in Electrical & Computer Engineering; GPA: 3.84/4.00 Sep 2023 – Mar 2025
- **University of Waterloo (UWaterloo)** Waterloo, ON
Bachelor of Applied Science in Nanotechnology Engineering; GPA: 81/100 Sep 2018 – Jun 2023

EXPERIENCE

- **Manulife** Waterloo, ON
QA Developer Jan 2020 - Apr 2020
 - **Cross-browser Testing:** Developed BDD test scenarios for 4 browsers, resolving 9 IE-specific defects, improving compatibility testing efficiency by 25%.
 - **Code Quality:** Fixed 40+ SonarQube issues, achieving 98%+ test coverage, leading to a 15% reduction in reported production defects.
 - **Stakeholder Demo:** Delivered a product demo to 50+ stakeholders, improving feedback turnaround time and aligning team expectations.
- **Ford Motor Company** Oakville, ON
QA Automation Specialist May 2022 - Aug 2022
 - **TCU Testing:** Executed daily TCU performance tests, validating network throughput & system stability, contributing to a 10% increase in test reliability.
 - **Debugging:** Resolved 40+ SSH & Selenium exceptions, reducing test failures by 20%, streamlining deployment processes.
 - **CarPlay Testing:** Enhanced CarPlay testing automation, reducing execution time by 30% through script optimization and debugging.
- **Imagine Communications** Waterloo, ON
QA Developer Jan 2021 - Apr 2021
 - **Automated UI Testing:** Developed automated scripts for UI interactions, improving test coverage and efficiency by automating critical workflows.
 - **Server Monitoring:** Implemented automated server health checks, reducing manual intervention by 30%.
- **Teranet CMS** Waterloo, ON
QA Automation Specialist Sep 2020 - Dec 2020
 - **Regression Testing:** Developed Selenium-based regression tests in C#, improving reliability.
 - **Test Optimization:** Optimized execution time by 15% through enhanced scripting and debugging.

PROJECTS

- **Emergency Route Planner:** Developed an LLM-powered evacuation routing system using Dijkstra & ACO, optimizing disaster response.
- **Food-Raccoon:** Built a personalized ML-powered restaurant recommendation system integrating Yelp/Google APIs.
- **S.W.I.M (Sequential Wave Imprinting Machine):** Built an Arduino-based LED display system, improving motion-triggered image projection using time-lapse photography.
- **Autonomous Robot:** Designed and programmed a LEGO Mindstorms Robot for object retrieval, achieving 3rd place in a robotics competition.