

Houfu Chen

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SUMMARY OF QUALIFICATIONS

- **QA & Network Automation:** Extensive experience in QA and test automation, proficient in Python, Selenium, and API testing, with hands-on experience using iPerf. Skilled in CI/CD pipelines and automating tests with Selenium and Pytest, following Behavior Driven Development (BDD) and Test Driven Development (TDD) methodologies.
- **Cloud & Infrastructure Testing:** Experience in network performance benchmarking using iPerf and automating tests for cloud-based environments, including VPC networking and virtualization. Adequate knowledge with Kubernetes.
- **ML & Data Analytics:** Hands-on experience with AI-driven applications, LLM APIs, and data analytics for automation and decision-making.
- **Technical Recognition, Teaching & Leadership:** Recipient of President's Research Award; Featured Alumni in Data Analytics & ML. Graduate TA for ML & Data Analytics, grading 1,000+ submissions and mentoring students on automation and debugging best practices.
- **Programming Languages:** Python, JavaScript, React, C++, C#, C

EDUCATION

- **University of Toronto (UofT)** Toronto, ON
Master of Engineering in Electrical & Computer Engineering Sep 2023 – Mar 2025
- **University of Waterloo (UWaterloo)** Waterloo, ON
Bachelor of Applied Science in Nanotechnology Engineering Sep 2018 – Jun 2023

EXPERIENCE

- **Ford Motor Company** Oakville, ON
Software QA Engineer May 2022 - Aug 2022
 - **TCU Testing:** Executed daily TCU performance tests, utilizing iPerf to measure network throughput and validate system stability, contributing to a 10% increase in test reliability.
 - **Network Performance Testing:** Conducted iPerf -based network benchmarking and used TCPdump for packet analysis to assess vehicle connectivity, optimizing data transmission efficiency
 - **Ubuntu System Management:** Upgraded and maintained Ubuntu Linux environments to resolve compatibility issues, ensuring smooth execution of automation scripts and improving system stability.
 - **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
Software QA Engineer 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
Software QA Engineer 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.
- **Manulife** Waterloo, ON
Software QA Engineer Jan 2020 - Apr 2020
 - **Cross-browser Testing:** Developed BDD and TDD test scenarios for 4 browsers, resolving 9 IE-specific defects, improving compatibility testing efficiency by 25%. 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.