

Ruilin Wang

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QA & TEST AUTOMATION | PYTHON | API & WEB TESTING

PROFILE

QA and test automation candidate with hands-on academic and client-capstone experience in Python regression suites, API validation, web workflows, and data quality. Combines software implementation with controlled test fixtures, negative and boundary checks, and reproducible verification. Seeking QA, test automation, API testing, and junior SDET roles across Canada.

TECHNICAL SKILLS

Testing: pytest, unittest, Playwright, Vitest, Cypress scenarios, regression, integration, negative and boundary testing

API & Data: Python, REST APIs, Flask test client, JWT, SQL, SQLite, Pandas, CSV/JSON validation, coverage.py

Delivery: Git, GitHub Actions configuration, Docker, Linux, requirements traceability, synthetic fixtures, SHA-256 provenance

SELECTED PROJECTS

OpenET 2 - Eye-Tracking Data Quality & Automation

Primary implementation and QA | Client capstone | May 2026 - Aug 2026

- Took primary responsibility for implementation and QA, mapping 10 project requirements to implementation and verification evidence.
- Developed Python tests for CSV, TSV, and JSON imports, timestamp normalization, metadata conflicts, malformed inputs, sampling gaps, and participant-matched repeatability.
- Validated synthetic ingestion-to-reporting workflows and configured regression checks in GitHub Actions. Local v1.7 verification: 32 offline checks passed, 1 skipped; 35 parameterized browser cases across 3 engines produced 105 passing executions.

Movie REST API - API Regression & Access Control

Sole developer | Individual academic project | Feb 2026 - May 2026

- Developed a pytest API regression suite with 24 passing cases and 89.3% statement coverage of the Flask API module, covering authorization, malformed imports, pagination, and private-resource isolation.
- Built reusable fixtures and isolated SQLite databases to verify HTTP responses, persisted records, token invalidation, repeated imports, and JSON/CSV/image exports.

SafeguardAI - Web & Data Pipeline Testing

Team lead and technical/test contributor | Academic project | Feb 2026 - May 2026

- Led technical implementation and testing; developed and validated 18 Vitest and 16 Python unittest checks for report rendering, data cleaning, missing fields, and failed-request fallbacks.
- Maintained Cypress scenarios for authentication, navigation, and form validation. The 13 defined Cypress scenarios were not executed in the latest local verification.

EDUCATION

Master of Information Technology, Cyber Security Specialization

UNSW Sydney | Feb 2025 - Aug 2026

Bachelor of Science in Computing Science, Minor in Mathematics

University of Alberta | Sep 2020 - Dec 2024

Verification results: 6 Sep 2026. OpenET skipped one original-client-data check; browser counts are executions across engines. SafeguardAI's full service integration was not verified.