

# HUANG "HUNTER" LU

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Senior Software Engineer (Quality) with 10+ years of experience in test automation, API testing, and CI/CD integration across distributed systems. Focused on improving software quality through automated testing, strong test coverage, and cross-team collaboration. Exploring AI-driven tools to enhance software quality and support test automation workflows.

## SKILLS

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Testing & Automation: Playwright, Cypress, Selenium, Karate, Cucumber (BDD), Jest, Postman, SoapUI

Languages: JavaScript, TypeScript, Java, SQL

Frameworks & Tools: Git, GitLab CI/CD, Jenkins, Docker, TestRail, Splunk, Jira

API & Data: REST APIs, GraphQL, Axios, SQL Developer, MySQL

Cloud: AWS (EC2, S3, SES)

## PERSONAL PROJECTS / PORTFOLIO

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Visit my website for hosted projects and the most up-to-date information: [hunterlu.net](https://hunterlu.net)

Accessible on mobile by scanning the QR code to the right.



## WORK EXPERIENCE

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### Mastercard

*Senior Software Engineer (Quality)*

April 2022 – May 2026

- Collaborated on a scalable API automation framework using Jest and Axios, integrated with TestRail and GitLab CI/CD, improving coverage and reducing regression defects.
- Co-developed an AI-powered test case generation agent with AWS Bedrock, converting test plans into structured TestRail tests and reducing manual effort.
- Built automated integration and end-to-end tests for microservices and REST APIs, increasing release confidence and reducing production defects.
- Defined testing strategies and quality standards in collaboration with engineers and product managers.
- Integrated automated testing into CI/CD pipelines, enabling early detection of regression defects and improving release quality.
- Conducted root cause analysis and expanded test coverage, promoting quality engineering best practices.
- Mentored junior engineers on automation frameworks and testing strategies, strengthening team capabilities.

### Fidelity Investments

*Software Engineer in Test*

September 2016 – April 2022

- Expanded and maintained automated UI tests using Cucumber and Selenium (Java) with Page Object Model and Gherkin, improving readability and maintainability.
- Enhanced automated API testing with Karate and BDD-style Gherkin tests.
- Implemented WireMock to stub external services, ensuring reliable and controlled API testing.
- Collaborated with developers and product owners to design robust test scenarios aligned with requirements.

- Managed test data, CI/CD pipelines, and QA tools to streamline automated test execution and workflows.

## Wayfair

*Quality Assurance Analyst*

July 2015 – July 2016

- Tested functionality, usability, and performance of new features across Wayfair's websites and mobile applications.
- Performed cross-browser and cross-device testing to ensure consistent user experience.
- Collaborated with product managers, analysts, and engineers to define testing requirements and validate features.
- Investigated and documented defects, supporting timely resolution.
- Developed and maintained test cases, plans, and regression documentation to support ongoing QA processes.

## Harvard Business Publishing

*Information Technology Quality Assurance Intern*

June 2014 – August 2014

- Designed and executed UAT test cases for intranet portal, identifying issues before production.
- Led end-to-end testing and UAT sessions, collaborating with stakeholders to validate business workflows.
- Contributed to planning, requirements, and issue-tracking discussions, improving team alignment and test coverage.
- Documented and reported defects using Jira, supporting efficient resolution.

## EDUCATION

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- BENTLEY UNIVERSITY, Waltham, MA
- Bachelor of Science, magna cum laude, Computer Information Systems, May 2015
- GPA: 3.60/4.0 (Cumulative), 3.66 (Major); President's List, Dean's List