





# Ray Adrian Nugroho

Software Developer & QA Engineer

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## Technical Skills

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- **Programming**— Python, JavaScript, C/C++, HTML, CSS, Ruby on Rails
- **Automation tools**— Squish, Robot Framework, Selenium WebDriver, Playwright
- **Technologies**— SQL, Django, React, Angular, Terraform, Bootstrap, jQuery, Qt, Linux, Jenkins, TeamCity

## Work Experience

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### Quality Assurance Analyst

NOV 2020 – PRESENT

*Local Line Incorporated*

*Waterloo, Canada*

- Used **Playwright** to develop automated regression tests from scratch for Local Line's web app.
- Performed a thorough manual testing that significantly reduces the number of critical bugs after release.
- Hosted a status page for Local Line's web app through Checkly's services.
- Developed a seed script to populate Local Line's preview environments with test data.
- Diagnosed, debugged, and fixed both critical and minor bugs on the app's frontend and backend.

### Test Automation

JAN 2019 – APR 2019

*Christie Digital Systems*

*Waterloo, Canada*

- Enhanced existing test processes with more automation by using **Python** and **Qt** to design a tool that queries the status of a projector periodically.
- Fixed bugs and refactored **Squish** test scripts to improve correctness, efficiency, and clarity.
- Executed automation tests, analyzed test results, and did defect investigation for the GUI of the projector.

### Software Developer

MAY 2018 – AUG 2018

*Klashwerks*

*Ottawa, Canada*

- Automated a regression test with **Robot Framework** to maintain the correct compatibility of Klashwerks' products and the on-board diagnostic.
- Developed unit and integration tests by using **Google Test** and **Robot Framework**.

### Software Engineer

APR 2017 – DEC 2017

*Peraso Technologies*

*Toronto, Canada*

- Developed a test script in **JavaScript** to emulate a long-distance signal travel using a 60G attenuator.
- Designed a unit test in **C++** for a program that executes the finite-state machine.
- Built **Python** scripts to generate various dashboard graphs for showing performance test results.

## Side Projects

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### Selenium Test Project (Python)

JUN 2020 – JUL 2020

- Implemented functional tests for my personal website by using **Selenium WebDriver** with **Python**.

### MessageMe Project (Ruby on Rails)

SEP 2020 – OCT 2020

- Developed a chatroom where users can chat in real-time by using the **WebSocket** protocol.

## Education

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### Bachelor of Mathematical Economics (with Computer Science Minor)

SEP 2014 – APR 2020

*University of Waterloo*

*Waterloo, Canada*

#### Courses:

- CS 246: Object-Oriented Software Development
- CS 436: Network and Distributed Computer Systems

## Activities and Interests

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#### Online courses:

- Selenium WebDriver with Python 3.x
- The Complete Ruby on Rails Developer Course