Ray Adrian Nugroho

Software Developer

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Technical Skills

- **Programming**— Python, C/C++, HTML, CSS, JavaScript, Ruby on Rails
- **Automation tools**— Squish, Robot Framework, Selenium WebDriver
- **Technologies**— SQL, Git, Subversion, Qt, Linux, Jenkins, JIRA, TeamCity, Helix ALM, Bootstrap, jQuery

Work Experience

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.
- Assembled test setups to check the interoperability of Peraso and WiGig products in a plugfest event.
- 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.

CS 115 Instructional Support Assistant   AUG 2016 – DEC 2016

University of Waterloo   *Waterloo, Canada*

- Held weekly tutorials to provide **Racket** programming reviews for a class of 50 students.

Side Projects

Chess Project (C++)   NOV 2015 – DEC 2015

- Used the **observer pattern** to develop a chess game with a playable **AI** and save/load game features.

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

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

Online courses:

- Selenium WebDriver with Python 3.x
- Web Developer Bootcamp (HTML, CSS, JS)
- Game Development with Unreal Engine C++
- The Complete Ruby on Rails Developer Course