Ray Adrian Nugroho

4A Mathematical Economics

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Technical Skills

- Proficient in Python, C/C++, HTML, CSS, and JavaScript
- Solid knowledge in object-oriented design, network and distributed systems, and data structures
- Working experience in using Linux, JSON, Git, Jenkins, Subversion, JIRA, and TeamCity

Work Experience

Software Developer

Klashwerks, May - August 2018 | Ottawa, ON

- Developed all unit and integration tests by using Google Test and Robot Framework
- Assembled an automated test suite to determine if new changes to the product would maintain compatibility with all existing versions of OBD (on-board diagnostic)

Software Engineer

Peraso Technologies, April – December 2017 | Toronto, ON

- Developed a program in JavaScript to emulate long-distance signal travel using a 60G attenuator
- Assembled test setups to check the interoperability of Peraso and other WiGig products in a plugfest event
- Designed a unit test in C++ for Peraso's finite state machine (FSM)
- Created Python scripts to generate various dashboard graphs for showing performance test results

CS 115 Instructional Support Assistant (ISA)

University of Waterloo, August – December 2016 | Waterloo, ON

- Held weekly tutorials to provide Racket programming reviews for a class of 50 students
- Modified the HTML files of the course website to update important course information

Side Projects

PawnPusher9000, November – December 2015

- Created a chess game written in C++ with a playable AI and save/load game features
- Responsible for programming the movement of chess pieces, testing the program, and coding special chess moves (e.g. castling, en passant, pawn promotion)

ChamberCrawler3000, July 2016

- Developed a fantasy role-playing game in C++ where the player travels through the dungeon and fights against computer-controlled enemies
- Utilized decorator design pattern to program different types of player characters and enemies in the game
- Designed a combat system between the player and the enemies with visitor pattern

Education

Candidate for Bachelor of Mathematics, Mathematical Economics

University of Waterloo, September 2014 – August 2019

Courses:

- CS 246: Object-Oriented Software Development
 CS 436: Network and Distributed Computer Systems
- CS 234: Data Types and Structures

Activities and Interests

Interest in Web Development

Completed Udemy's online courses regarding JavaScript, Node.js, MongoDB, jQuery, and RESTful

Member of UW Toastmasters, University of Waterloo, April 2015 – May 2017

Received an award for excellent presentations of complex vocabularies