

Janujan Gathieswaran

University of Waterloo | 2A Computer Engineering

Relevant Experience

Performance Test Engineer

RBC

Toronto, ON

09/2018 - 12/2018

- Conducted performance testing of mobile and web applications using testing tools such as HP LoadRunner, JMeter, and SoapUI
- Designed test plans as per business requirements and developed scripts using the RESTful API for load testing application flows
- Provided analysis of test results using Dynatrace to identify bottlenecks and recommended changes to improve performance

Augmented Reality Developer

Engineering Ideas Clinic, University of Waterloo

Waterloo, ON

01/2018 - 04/2018

- Explored the viability of the Microsoft HoloLens as an educational tool in a school environment by developing educational applications
- Developed and tested several applications in C# in Unity, including physics and algorithm simulations with learning objectives
- Documented the development process and communicated results with a professor and member from D2L during weekly project meetings

Projects

Calendar Capture Android Application (Java)

09/2018 - Present

- Co-developed an application to add an event to Google Calendar upon taking a picture of an event poster with a date, location and description
- Implemented text detection (OCR) from the Cloud Vision API and Google Calendar API to capture and store the event
- Demonstrated excellent project management skills by using a Gantt chart and Git in order to work with a team of 4 members

A* Pathfinding Algorithm Visualization (C#)

01/2018 - 04/2018


- Co-developed an application for the Microsoft HoloLens in Unity to help students visualize the process of the A* pathfinding algorithm
- The application maps a room and allows the user to pick two points in the same plane in order to show the shortest path between the points
- Integrated an option to alter parameters of the algorithm to see how they may affect the speed of the algorithm

Trivia Quiz Game (Java)

03/2017 - 06/2017

- Developed a trivia game with multiple quizzes and types of questions that gathers user statistics to improve user performance
- Implemented object-oriented programming concepts and GUI elements such as checkboxes and buttons in order to make a user-friendly interface
- Generated comprehensive technical documentation outlining program features, test procedures, and errors

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 [janujang.github.io](https://github.com/janujang)

Summary

- Great problem solving and analytical skills
- Strong leadership and communication skills
- Ability to adapt to new technologies

Technical Experience

Development

Java, C++, C#, HTML, CSS, SQL, Javascript, Python, RESTful API

Tools and Hardware

Git, Unity, Arduino, LabVIEW, Android Studio, VHDL based FPGA development, test equipment

Achievements

President's Scholarship of Distinction

Admission average of 95% or higher

Skills Challenge 2nd Place

Control system and automation project using LabVIEW

Robotics Competition 2nd Place

Line follower robot using an Arduino

Education

University of Waterloo

09/2017 - Present

Bachelor of Applied Science,
Honours Computer Engineering

Relevant Courses

Electronic Circuits I, Algorithms and Data Structures, Digital Computers