

# Shaziah Gafur

(647) 389-7174

[shaziah.gafur@mail.utoronto.ca](mailto:shaziah.gafur@mail.utoronto.ca)

<https://shaziahgafur.github.io>

<https://www.linkedin.com/in/shaziah-gafur/>

## SUMMARY

- MIST Toronto Provincials Second Place for Science Fair Competition
- Self-driven, goal-oriented leader who aspires to create technological global impact
- International Baccalaureate Diploma Programme Graduate

## PROJECTS

### Augmented Workouts

**Winning Project** at JAMHacks 2017 (hackathon) for Best Use of Projection

*Fitness Gaming Console that immerses the user in a 3D virtual environment and is responsive to the user's movements*

My role included developing C++ code for pedometer functions and constructing a calorie counter by interpreting physical movements. I was also involved in hardware setup and research.

### Piano Chord Detection Using Fourier Analysis

November 2017 – February 2018

*Self-directed research project aiming to analyze and identify individual music notes in piano chords of a sample of music*

Used Java to simplify complex calculations of the Fourier

Transform and implement sorting algorithms

Used Python for the Mingus library to assess frequency distribution and identify musical notes

### Tree Simulator

Project submission at Bonfire hackathon, hosted in 2017

*Web app based on JavaScript; A game that assigns resources which user can utilize to simulate the growth of a tree*

My role included implementation of the JavaScript canvas library and using it to assign resources and calculate predictions of tree's projected growth

### BTOC Solutions

October 2016 – March 2017

*Customer-relationship management database system for private company*

I created the entire database from scratch and raw data using SQL, Microsoft Access & Excel

Advanced techniques include an automatic email system, macros, report & form generation, and error handling

## SELECTED SKILLS

2+ years of Java Experience, including Android App Development and Object-Oriented Programming

2+ years of experience in each of HTML, CSS, and JavaScript

12+ months of experience in Python  
Thorough understanding of Git and GitHub workflow

## ADDITIONAL SKILLS

C++

SQL

j.Query

AngularJS

phpMyAdmin

WordPress

MATLAB

## LEADERSHIP POSITIONS

**Lead Workshop Coordinator for Major**

**League Hacking at TurnerHacks in June 2018**

Directed volunteers to lead interactive workshops in Web Development and Android App Development for attendees of the hackathon; major involvement in event planning and scheduling for 50+ guests

**Web Developer and Marketing & Communications Coordinator for Youth for Humanity**

Developed official website from scratch, managed contact forms, inspected internet traffic and improved social media content

**Member of UofT WearTech (Wearable Technology club) Hardware and Software Design Teams**

Controlling gesture input using Python programming and various hardware

## EDUCATION

**University of Toronto St. George**

2018-2022 (expected)

Computer Engineering