

Shaziah Gafur

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SUMMARY

- Self-driven, goal-oriented leader who aspires to create technological global impact
- 2nd Place Winner at MIST Toronto 2017 Provincials for Science Fair Competition

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

BTOC Solutions

October 2016 – March 2017

Customer-relationship management database system for private company

I implemented the first-ever database system, created from scratch and raw data using SQL, Microsoft Access & Excel. Advanced techniques include an automatic email system, macros, report & form generation, and error handling

Tree Simulator

Project submission at Bonfire hackathon, hosted in 2017

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

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

EDUCATION

University of Toronto St. George

2018-2022 (expected)

Computer Engineering

SELECTED SKILLS

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

2+ years of experience in database management with MySQL, PostgreSQL, MATLAB, and Microsoft Access. Strong grasp of database theory.

12+ months of experience in Python

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

Thorough understanding of version control through Git

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, Arduino and various hardware