Shaziah Gafur

(647) 389-7174
shaziah.gafur@mail.utoronto.ca ✉
https://shaziahgafur.github.io/ 📇
https://www.linkedin.com/in/shaziah-gafur/ 🔗

SUMMARY

- Facilitated TurnerHacks – one of the first high school hackathons in the Peel Region, hosted in June 2018
- Active member of several innovative, youth-led organizations, including NxtEng Canada, Fuse Society, STEM Fellowship, and Education for a Nation
- Self-driven, goal-oriented leader and aspiring entrepreneur

PROJECTS

Augmented Workouts - Link

Winning Project at JAMHacks 2017 (hackathon)
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 - Link

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

Process Improvement for reBOOT Canada

October 2018 – Present
Engineering design project as part of the Volunteer Experience in Engineering Program
Implementing the first database management system for the company by designing a relational database using object-oriented programming in Python with Django, PostgreSQL and Heroku to employ task automation for reBOOT Canada.

BTOC Solutions

October 2016 – March 2017
Customer-relationship management database system for private company
I proposed and initiated 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

EDUCATION

University of Toronto St. George
2018-2022 (expected)
Computer Engineering

SELECTED SKILLS

Languages: Java, C/C++, Python, JavaScript, HTML, CSS

Data Analytics & Database Management: PostgreSQL, MATLAB, MySQL, Access

Frameworks: Django, jQuery

Tools: Git, Photoshop, WordPress

LEADERSHIP EXPERIENCE

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

Marketing & Communications Coordinator for Youth for Humanity
Developed official website from scratch, coordinated tasks to others for content writing, improved social media presence, managed contact forms, and created infographics

Member of UofT WearTech (Wearable Technology club) Hardware and Software Design Teams
Controlling gesture input using Python programming, Arduino and various hardware.