SHAZIAH GAFUR

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SELECTED SKILLS

Languages: Java, C/C++, Python, JavaScript, HTML, CSS
Frameworks: Django, NodeJS, ExpressJS, ReactJS, jQuery
Tools: Git, MATLAB, Microsoft Excel, Photoshop
Databases: MongoDB, PostgreSQL, SQL, CRUD & REST APIs, Microsoft Access

WORK EXPERIENCE

Software Engineering Intern for ZHY Interactive   *June 2019 – Aug 2019 (expected)*
- Developing online marketplace for exchanging royalties among music creators and investors
- Cloud-based application built from scratch using NodeJS, MongoDB, React, and Express
- Major contributor of data and information engineering, developing data infrastructure and managing analytics
- Creating REST APIs through React and NodeJS for CRUD operations and facilitating database transactions
- Automated and manual testing of back-end features and API endpoints

PROJECTS

Process Improvement for reBOOT Canada   *Oct 2018 – May 2019*
- Redesigning information management for reBOOT Canada by creating the first relational management system
- PostgreSQL database and scripting in Django to perform analytics, user authentication and database transactions
- Cloud-based application built with Python to perform task automation for improving data integrity and donation tracking

Piano Chord Detection Using Fourier Analysis   *Nov 2017 – Feb 2018*
- Self-directed research project to identify music notes of piano chords in a sample of music
- Self-taught university-level mathematics as a high school student
- Java and MATLAB program to simplify complex calculations of the Fourier Transform and implement sorting algorithms
- Python Mingus library used to assess frequency distribution and identify specific musical keys

Augmented Workouts   ***Winning Project** at JAMHacks 2017 hackathon*
- Developed fitness gaming console to make wearisome exercise more enjoyable by immersing the user in a responsive 3D virtual environment
- Used C++ to generate pedometer functions and construct a calorie counter by interpreting gestures as exercise movements.

BTOC Solutions   *Oct 2016 – March 2017*
- Proposed and initiated the first-ever database system to organize client payment information in order to reduce inefficient storage and cases of data loss
- Created from scratch and raw data using SQL, Microsoft Access & Excel
- Advanced features include an automatic email system, macros, report & form generation, and input error handling.

RELEVANT COURSEWORK

IB Higher Level Math (Discrete Math Option with Number Theory and Graph Theory) | Computer Fundamentals | Linear Algebra

LEADERSHIP EXPERIENCE

Lead Workshop Coordinator for Major League Hacking at TurnerHacks in June 2018
- Directed volunteers to lead interactive workshops in Web and Android App Development for attendees of hackathon
- Major involvement in event planning and scheduling for 50+ guests

EDUCATION

University of Toronto St. George   *2018-2022 (expected)*
Computer Engineering | Bachelor of Applied Science