SHAZIAH GAFUR

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SELECTED SKILLS

Languages: Java, C/C++, Python, JavaScript, Assembly, Verilog, HTML, CSS
 Frameworks: Spring Framework, Django, NodeJS, ExpressJS, ReactJS
 Databases: MongoDB, PostgreSQL, SQL, CRUD & REST APIs, Access

WORK EXPERIENCE

Software Engineering Intern | Royaltymine (formerly ZHY Interactive Incorporated)

Toronto, Ontario | June 2019 – Aug 2019

- Developed cloud-based application from scratch with team of 10 interns using **NodeJS**, **MongoDB**, **React** to sustain online marketplace for music creators and investors to share music and collect royalties; currently used by over 300+ members
- Defined architecture and data models, managed tracking of revenue and user analytics, implemented back-end features from scratch, and established flow of payment splitting among shareholders; reported royalty earnings with 100% accuracy
- Created REST APIs through React and NodeJS for performing CRUD operations and facilitating database transactions
- Performed automated and manual testing with **Postman** and **MochaJS** to enhance back-end features and API endpoints

Information Technology Business Analyst | Bell Canada

Mississauga, Ontario | May 2020 – Aug 2020

- Reconstructed obsolete website for Operations Technical & Systems Support using Java's Spring Framework and Spring
 MVC architecture. Mentored the original creator who formerly built the site with Classical ASP and static HTML and CSS
- Engineered new web components including employee login & authentication to enhance security of 1000+ employee users
- Crafted search engine and implementation for Corporate Asset Library with Solr, increasing relevancy of results by 60%
- Designed new data mapping for increasing efficiency of flows of IT Configuration Items among 10+ data sources

EDUCATION

University of Toronto St. George

2018 – 2022 (expected)

Computer Engineering | Bachelor of Applied Science

Relevant Coursework: Software Design & Communication, Algorithms & Data Structures, Operating Systems, Machine Learning Fundamentals

PROJECTS

All Nightr – A GIS Map application helping students navigate at night

Jan 2020 – April 2020

- Developed an application for students to locate study spots and places for food outside of class hours, as part of course ECE297 (Software Design and Communication) in C++ using the Open Source code of OpenStreetMap
- Implemented path finding algorithms for determining directions, shortest routes, and constrained paths
- Created tactics to predict user's search requests with suggestive text, reducing chance of user error by 50%
- Enhanced performance by 60% and memory usage by 30%; optimized map visualization using the Open Source GTK toolkit

Process Improvement | reBOOT Canada

Oct 2018 – July 2019

- Resolved complications of data integrity and tracking by creating the first cloud-based **relational** management system in **Python** for controlling flow of hardware donations; enabled task automation to shrink data input time by 3 times
- Integrated PostgreSQL database and Django to perform analytics, user authentication and facilitate database transactions

<u>Augmented Workouts</u>

Winning Project at JAMHacks 2017 hackathon

- Designed fitness gaming console to make wearisome exercise more enjoyable by immersing the user in a responsive 3D virtual environment using the Xadow Intel Edison development board; participants reported 70% more willing to exercise
- Generated a pedometer and calorie counter using C++ and Arduino to interpret gestures as exercise movements
- Achieved strong foundation of hardware components by debugging conflicts and connecting different types of interfaces

BTOC Solutions

Oct 2016 – March 2017

- Solved issues of data loss and inefficient storage by implementing the first-ever database management system from scratch using **SQL**, **Microsoft Access** & **Excel**; structuring client information for 100+ television service subscribers
- Reduced time for data retrieval by 3 times; produced data clarity by creating meaningful insights from 15+ SQL queries
- Decreased chance of input error by 5 times by improving input validation with input masks, macros and by building 10 forms

LEADERSHIP & ACTIVITIES

<u>University of Toronto Machine Intelligence Student Team</u> – VP of Industry Relations & Career Advisor June 2020 – Present

- Managing team of 5 to execute 5+ career-related events in machine learning, including technical workshops and panels
- Securing sponsorship and maintaining relations with industry partners of 10+ companies and UofT student organizations
- Point of contact for career support; composing career resources for students <u>here</u> and contributor to <u>bi-weekly newsletter</u>