

SELECTED SKILLS

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

Frameworks: Django, NodeJS, ExpressJS, ReactJS, jQuery

Tools: Git, MATLAB, Microsoft Excel, Photoshop, MochaJS, Postman

Databases: MongoDB, PostgreSQL, SQL, CRUD & REST APIs, Microsoft Access

WORK EXPERIENCE

Software Engineering Intern for Royaltymine (ZHY Interactive Incorporated)

June 2019 – Aug 2019

- Developed online marketplace for exchanging royalties among music creators and investors
- Cloud-based application built from scratch using NodeJS, MongoDB, React, Express and currently used by over 100+ members
- Major contributor of information engineering, developing data infrastructure, managing analytics, and controlling flow of payment splitting among shareholders
- Created REST APIs through React and NodeJS for CRUD operations and facilitating database transactions
- Automated and manual testing of back-end features and API endpoints through Postman and Mocha

EDUCATION

University of Toronto St. George

2018-2022 (expected)

Computer Engineering | Bachelor of Applied Science

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 facilitate 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

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
- Facilitated the first hackathon at local high school to encourage involvement in technological innovation for youth
- Major involvement in event planning and scheduling for 50+ guests

RELEVANT COURSEWORK

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