

# SEUNG JAE YANG

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📍 Toronto, Canada

🌐 Website

in Seung-Jae-Yang

🔗 seungjae02

## EXPERIENCE

### Software Developer Intern | Bank of Canada

📅 May 2021 – Present

📍 Toronto, ON

- Building a full-stack application to track Advisors/Managing Directors business travel records using **Power Apps**.
- Developing an AI chat bot assistant for the Bank's Systems Developers using **Power Virtual Agents**.

### Junior Coding Program Developer | University of Toronto

📅 May 2021 – Present

📍 Toronto, ON

- Developed a two-month-long summer course covering fundamental concepts of **Computer Science** and **Engineering Design**.
- Teaching students Computer Science in **Python** through workshops.

### Software Developer | You're Next Career Network

📅 March 2021 – Present

📍 Toronto, ON

- Updating the website's back-end code from **Python** version 2.7 to 3.9.
- Revamping the website's front-end code utilizing **React.js**.

### Software Engineering Intern | FIBOS Inc.

📅 July 2020 – September 2020

📍 Toronto, ON

- Developed a network of wireless sensors using **Python**, **C/C++**, and **SQL** to stream live data onto **Microsoft Azure IoT platform**.
- Built a full-stack **Python** application that simulates a power distribution plant sensor network environment.

## PROJECTS

### TimeSync | Python, Flask, Javascript, SQLite, HTML5, CSS

📅 February 2020

- Developed the backend of a user-matching task organizer web application in a team of four.
- Handled the database, user sessions, and implemented a user matching algorithm that matches users by similar activity type with overlapping time intervals.

### Path-Finding Algorithms Visualizer | Python, PyGame

📅 June 2020 – February 2021

- Built a full-stack application that visualizes four search algorithms.
- Implemented A-Star, Dijkstra's, Bidirectional, Breadth-First, and Depth-First Search Algorithms.
- Integrated a random maze generation feature using recursive backtracking (Randomized DFS).

### UniMunch | Ruby on Rails, Javascript, HTML5, CSS, BOOTSTRAP

📅 December 2020 – January 2021

- Developed a food-sharing social media web-application.
- Familiarized with Model, View, and Control (MVC) web frameworks.
- Implemented user authentication and database searching features.

## EDUCATION

### BASc. in Computer Engineering The University of Toronto CGPA: 3.97/4.0

📅 Sep 2020 – May 2024

## PROGRAMMING

Python Java C Ruby HTML5  
CSS MATLAB LaTeX

## SKILLS

Algorithm Design & Analysis Flask  
Git Data Structures Ruby on Rails  
Microsoft Azure SQLite Arduino  
Microsoft Power Platform Bootstrap  
Tensorflow

## COURSES

- Data Structures and Algorithms
- Computer Programming Fundamentals
- Engineering Design
- Linear Algebra
- Calculus I & II

## ACHIEVEMENTS

- Top 5 projects at Mental Health Hackathon by UofT: Feb 2021
- 3x Canadian Individual Drum Solo Champion: Jan 2017 – Feb 2019
- Faculty of Applied Science & Engineering Entrance Scholarship: Aug 2020
- Basilian Book Scholarship: Oct 2019

## PARTICIPATION

- UofTHacks VIII - University of Toronto: 2021
- Mental Health Hackathon - University of Toronto: 2021
- Drumline Leader - Led the Drumline to win the Canadian scholastic champion title for 3 consecutive years as the captain: Sep 2016 – Jun 2020
- Kenya Service Trip Student Volunteer - ME TO WE Foundation: 2017