

EDUCATION

- **University of Toronto** *Bachelor's degree, Computer Science* Toronto, Canada *Sept 2016 - Apr 2020*

EXPERIENCE

- **Amazon** *Software Engineer Intern* Toronto, Canada *May 2017 - Aug 2017*
 - **Summary/Goal:** Design and implement a report visualizing how the workforce system has performed in real time
 - **Data Collection(backend):** Aggregate data from local and other team's service with **Java** and save to our team's **AWS DynamoDB**, auto populates data for every 30 minutes.
 - **Visualization(frontend):** Design multiple blueprint interfaces and submit for co-workers to review, build a website interface with **React** for users to query with a combination of a particular area of workforce system and range of time interval.
 - **Achievement/Impact:** After the user query is validate, it will query the database in the backend and display a report showing what the workforce system has taken during the queried time interval , then the user could evaluate the system based on the visualization report; Optimized the query time by **2 to 3** seconds faster per query by conditional refactoring and filtering; Write multiple unit tests, test coverage is above **99%**.

PROJECTS

- **SDC Form Service** *Oct 2021 - Nov 2021*
 - Cooperate with a team of 4 to build a full-stack application that allows user to upload/retrieve SDC forms.
 - Built consistent UI components using **react-bootstrap** library.
 - Successfully deployed the application to Heroku.
- **Believe Initiative Web App** *Oct 2020 - Dec 2020*
 - Lead a team of 5 as the scrum master to build a web application that allow users to upload and track their course experience.
 - Implemented RESTful routing, user authentication, comment, password reset, login page , stored student upload data and security credentials in **MySQL**.
 - Completed all 7 customers requested user stories, achieved 95% test-coverage and successful deployment.
- **Food Deliver Web App** *Oct 2019 - Nov 2019*
 - Built a web application using **Node.js**, **Express** and **MongoDB** based on **AWS**.
 - Developed the front-end based on **BootStrap**, **Vue** and developed **RESTful API** service via **Node.js**.
 - Developed user authentication and authorization, flash messages, in-app notifications and map features with **Google Map API**.
 - Deployed and hosted on Heroku to serve beta users and gather customer feedback.
- **E-commerce System** *May 2019 - Aug 2019*
 - Developed **RESTful API** for e-commerce system to parse and response order requests using **Java**, **Spring Boot**, **Hibernate** and **MySQL**.
 - Utilized **Maven** to manage dependencies and **JUnit** to test the system with coverage of 92%.
 - Created Dockerfiles to deploy microservices on **Docker** containers. Configured the network for inter-container communication.
 - Worked on **Jenkins** for Continuous Integration which can automatically build, test and deploy the application.
 - Used **JIRA** for ticket tracking, changes management and Agile/SCRUM tool.
- **Book Store Management System** *Oct 2018 - Nov 2018*
 - Implemented the classical **Java** Servlet, MVC model with unit test.
 - Designed the database schema, connecting by **JDBC** connector.

PROGRAMMING SKILLS

- **Languages:** Java, Python, JavaScript, SQL, C/C++, CSS, HTML
- **Technologies:** Node.js, MySQL, Bootstrap, MongoDB, MySQL, Sprint Boot, Docker, Maven, AWS, Unix/Linux, Git, React, JDBC, Hibernate, Restful API, Vue, Express