

CHRIS TAN

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EDUCATION

University of Waterloo

Candidate for Bachelor of Applied Science - Computer Engineering

GPA : 3.6/4.0

Waterloo, ON

Sep 2019 - April 2024

WORK EXPERIENCE

Scotiabank

Software Developer

Toronto, ON

Jan 2020 - Apr 2020

- Developed a **full-stack web application** using **Java Spring Boot** that queries JDBC H2 databases for transactions, utilising Spring **REST/JPA** back-end **API** to connect to a **React** front-end.
- Implemented **inversion of control/dependency injection** principles by creating a Spring Boot application that ran **MySQL** queries and parsed result data into .csv files, increasing business analysis productivity by 48%.
- Practiced **Model-View-Controller** software architecture within Spring Boot applications to enable **loose coupling**.
- Conducted **JUnit** tests and acceptance tests using Cucumber testing tool, working with senior developers to maintain ethical code practices.
- Exhibited **Scrum** best practices by working in an **Agile** team, participating in daily stand-ups and sprint retros, reviews, and other ceremonies.

Hunter Dickinson Inc.

Data Analyst Intern

Vancouver, BC

Mar 2019 - Apr 2019

- Employed statistical analysis on geochemical and geophysical data with **Excel Power Query** and **MySQL** to display and reveal valuable data within mineral deposits.
- Applied confidence intervals, z-tests and significance-based statistical **hypothesis testing** on data on mineral data concentrations to perform optimization of sampling techniques.

PROJECTS

Inkansword

React.js, Serverless, AWS Lambda, DynamoDB, API Gateway, Cognito, S3

- Created a **Serverless** framework web application that provides functionality and quality-of-life changes for creative writers.
- Leveraged **AWS Cognito** User/Identity Pools to store unique users, with **DynamoDB** storing unique story/note objects.
- Maintained **REST API** microservice-based architecture using **Lambda and API Gateway**, building CRUD endpoints.

UMigrate

Javascript, Python, React.js, Django, Ubuntu Linux, PostgreSQL

- Founded startup group with twelve other students to create a social network for university students on co-op.
- Spearheaded **React** front-end sub-team development by designing advertisement/post creation, post-liking functionalities, and user list components by consuming and working with custom **Python Django API**.
- Followed **CI/CD** practices by introducing beta testing from the student community on a regular basis.

Hardstuck.gg

Javascript, Node.js, Express.js, HTML/CSS, Bootstrap

- Developed a **Node.js** web application that implements a REST API to analyze video game data parsed from the Riot Games API.
- Used Express-handlebars as a view engine to dynamically build result web pages.

SKILLS

Languages:	Node/Javascript, Java, C++, Python, SQL
Frameworks/Libraries:	React, jQuery, Express, Spring Boot, JUnit, Serverless
Technologies:	Git, Maven, Gradle, AWS, MySQL, MongoDB, DBeaver
Interests:	Novel Writing, Ski Instructing, Weight Training

AWARDS AND SCORES

Canadian Computing Competition Distinction

Recognized for placing in the top 25% of all contestants.

University of Waterloo

March 2019