




# CHRIS TAN

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## EDUCATION

### University of Waterloo

Candidate for Bachelor of Applied Science - Computer Engineering

GPA : 3.6+

Waterloo, ON

Sep 2019 - April 2024

## WORK EXPERIENCE

### Scotiabank

*Software Developer*

Toronto, ON

Jan 2020 - Apr 2020

- Developed a full-stack application using Java Spring Boot that queries IBM H2 wire transaction databases and consumes custom APIs, built upon on a React front-end.
- Implemented inversion of control/DI by creating an 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.
- Wrote 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, etc.

### 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.

## PROJECTS

### Inkansword (WIP)

*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 front-end sub-team development by building designing advertisement creation and post displays, post-liking functionality, and user list components by consuming and working with custom Python Django API. user creation.
- Followed CI/DI practices by introducing beta testing from the student community on a regular basis.

### Hardstuck.gg

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

- Developed web application that implements a REST API to analyze video game data for a any particular player's id as its input.
- Built data parsing algorithms on Riot Games API endpoints to filter and modify a variety of data structures in JSON format.
- Used Express-handlebars as a view engine to dynamically build result web pages.

## SKILLS AND INTERESTS

### Languages:

Node.js, JavaScript, Java, C++, Python, MySQL

### Frameworks/Technologies:

Git, Github, Bitbucket, React.js, Express.js, Spring Boot, Bootstrap, AWS (Lambda, API Gateway, S3), Serverless, MongoDB

### Software:

LaTeX, Microsoft Excel, Sony Vegas Pro

### 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