CHRIS TAN

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EDUCATION

University of Waterloo	Waterloo, ON
Candidate for Bachelor of Applied Science - Computer Engineering	Sep 2019 - April 2024
GPA : 3.6+	

WORK EXPERIENCE

Scotiabank — Toronto, ON
Software Developer — 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 the **React** front-end.
- Implemented **inversion of control/dependency injection** principles 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**.
- 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, etc.

Hunter Dickinson Inc. — Vancouver, BC
Data Analyst Intern — 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 (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 **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 for any particular player's id as its input.
- Built **data parsing algorithms** to handle, filter, and modify incoming JSON from Riot Games API endpoints.
- Used Express-handlebars as a view engine to dynamically build result web pages.

SKILLS

Languages:	Node/JavaScript, Java, C++, Python, SQL
Frameworks/Libaries:	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	University of Waterloo
Recognized for placing in the top 25% of all contestants.	March 2019