## **CHRIS TAN**

c46tan@uwaterloo.ca

% www.sobercoder.me

in www.linkedin.com/in/tan-chris/

www.github.com/t-chris

## **EXPERIENCE**

## Backend Engineer

#### Insticator Inc.

- **♀** Remote
- Created API request backup functionality by storing executed request JSONs in an AWS S3 Bucket, and integrating a restore parameter that undos executed requests, serving 1000+ endpoint calls in the first week.
- Developed a **Java Play Framework** backend API to enable and disable supply-side platforms via **Twirl Scala** front-end templates, allowing internal clients to bypass manual database queries.
- Utilized **Redis** to overhaul backend advertisement code base, storing clientele data in caches to reduce API latency by **98%**.
- Increased **JaCoCo** code coverage to over 90% across three repositories, writing over 30 **JUnit** tests.

#### Software Developer

#### **Scotiabank**

🛗 Jan 2020 - Apr 2020

♥ Toronto, ON

- Spearheaded development and design of a Java Spring Boot application that queries JDBC H2 databases for transactions, utilising Spring Hibernate/JPA 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.

## **PROJECTS**

#### Commentiquette

#### RNN Model for Creating Bot Comments ()

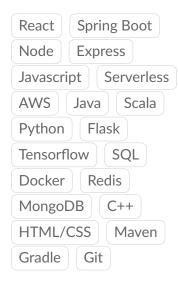
- Tensorflow, Keras, Youtube API, Python, Flask
- Developed a multi-layer recurrent neural network (RNN) model that parses comment datasets and trains to predict following characters in a sequence.
- Utilised **Flask** to build a lightweight front-end to allow an initial string input to start before the bot predicts subsequent comments.
- Created entire custom comment datasets for corresponding videos by writing **Python** scripts that utilised **YouTube V3 API**.

### Ink'd

#### Writing Project Web Application ()

- React.js, Serverless, AWS Lambda, DynamoDB, API Gateway, Cognito
- Assembled a Serverless framework web application that provides writing project skeletons for idea/project creation for creative writers.
- Leveraged AWS Cognito User/Identity Pools to store unique users, with DynamoDB storing unique story/note objects.

#### **SKILLS**



### **COMMUNITY**

## VP Sponsorships **PTC Waterloo**

₩ Oct 2019

Secured over \$1000 in funding by establishing sponsorships with Toyota Canada, Qool Media, and University of Waterloo, writing emails and scheduling meetings to fund technology conferences for Kitchener-Waterloo youth.

# Freelance Writer UWaterloo Voice

₩ Jul 2020

Wrote multiple articles for a student-run publication on Medium, ranging from academic inquiries to prose on the topic of technology, media, and people.

## **EDUCATION**

University of Waterloo
Candidate for B.ASc
Computer Engineering

**cGPA**: 3.8/4.0 **Term GPA**: 3.95/4.0