

Chris Tan

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EDUCATION

University of Waterloo

BASc. IN COMPUTER ENGINEERING

GPA: 3.840/4.0

Waterloo, ON | Sept 2019 - Apr 2024

WORK EXPERIENCE

WISH | SOFTWARE ENGINEERING INTERN

San Francisco, CA (Remote) | Jan 2022 - Apr 2022

- Composed GraphQL schemas for launch of a new campaigns project by creating **Graphene** objects and resolvers that dynamically price products based on the merchant's region.
- Spearheaded development of a revamped return request by designing a **Mealy finite-state-machine** that enables additional reshipment/returnless refund options and a two-day timeout window in **Python**.
- Cooperated with business-side teams to create **MongoDB** query scripts that calculate gross merchandise value and other quarterly metrics, increasing business analysis productivity by 34%.

ELECTRONIC ARTS | SOFTWARE ENGINEERING INTERN

Vancouver, BC (Remote) | May 2021 - Aug 2021

- Engineered a **Kotlin Spring Boot** data collection service to integrate external data brokers such as Marketplace APIs into one service layer, enabling **code scalability** for Apex and Battlefield 2042 teams.
- Designed and revamped **Protobuf** files and **unary/bidirectional gRPC endpoints** to implement a new field to enable bypassing of Redis caches to internal data brokers.
- Developed a **Java Play Framework** backend API to enable and disable supply-side platforms via **Twirl** Scala front-end templates, allowing clients to change advertisement subscriptions.

INSTICATOR INC. | BACKEND ENGINEERING INTERN

Kitchener, ON (Remote) | Sep 2020 - Dec 2020

- Created an API request **backup** functionality by storing request JSONs in an **AWS S3 Bucket**, integrating a restore parameter to roll back 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 clients to change advertisement subscriptions.

SCOTIABANK | SOFTWARE DEVELOPER INTERN

Toronto, ON | Jan 2020 - Apr 2020

- Directed development and design of a **Java Spring Boot** application that queries **JDBC H2** databases for wire transactions, utilising **Spring Hibernate/JPA** API to connect to a React front-end.
- Implemented **inversion of control/dependency injection** principles, creating a Spring Boot application that ran **MySQL** queries and parsed data into **.csv** files.

PROJECTS

COMMENTIQUETTE [↗](#)

RNN, PYTHON, TENSORFLOW, KERAS, FLASK

- Developed a **multi-layer recurrent neural network** to develop fake comments of particular YouTube channels, hosted on **Flask**. Trained the model with datasets made with **Python** scripts.

INK'D [↗](#)

REACT.JS, SERVERLESS, AWS (S3, LAMBDA, DYNAMODB, API GATEWAY, COGNITO)

- Assembled a complete **Serverless** framework web application that builds writing skeletons for project creation for creative writers, leveraging **AWS** to create API layer, store objects, and user authentication.

SKILLS

Languages: Java, Kotlin, C++, Python, C, Javascript, Scala, MATLAB, HTML/CSS

Frameworks: GraphQL, Spring, Play, Node, Express, React, Tensorflow, Flask, Serverless, Mockito

Technologies: Linux, Git, AWS, Maven, Gradle, MongoDB, Docker, Kubernetes