

# Andrew Chow

647-970-3639 | ac.andrewchow@Gmail.com | linkedin.com/in/acandrewchow | andrewchow.ca

## EDUCATION

### University of Guelph

*Bachelor of Computing, Software Engineering (Co-op)*

Guelph, ON

*Sept 2020 - Present*

- Dean's List: Fall 2020 - Winter 2023
- GPA: 3.7/4.0

## TECHNICAL SKILLS

**Languages:** Python, JavaScript, Elixir, C, HTML, CSS

**Tools/Frameworks:** React, NextJS, NodeJS, Phoenix, SQL, PostgreSQL, Tailwind, gRPC, Oban, Kafka, Charles, Figma, TestRail, Docker, Datadog, Splunk

## EXPERIENCE

### Software Developer

May 2023 - Aug 2023

*theScore*

*Toronto, ON*

- Engineered various product features within theScoreBet's Promo-Engine to **2+ million** users in North America
- Optimized Promotion **gRPC APIs**, resulting in performance enhancements that effectively resolved network timeouts across multiple back-end services
- Developed background job processing using **Oban** to enqueue workers to distribute **1000+** awards to patrons
- Utilized **Kafka** producers to broadcast expiration award messages across the **Kafka** cluster

### Undergraduate Teaching Assistant

Jan 2023 - Apr 2023

*University of Guelph*

*Guelph, ON*

- Educated **200+** students by teaching user interface design concepts within weekly interactive labs
- Marked assignments, labs, and readings to provide valuable feedback to students
- Communicated effectively with faculty regarding student progression to address any concerns or questions

### QA Analyst

May 2022 - Dec 2022

*theScore*

*Toronto, ON*

- Designed and implemented a Promotions Tracker feature for theScoreBet, incorporating market insights and user research to enhance **user experience** and increase **user retention** rates. This initiative was presented to Senior Leadership Executives.
- Maintained and managed Promotion's test suite, creating test cases to increase test coverage by **60%**
- Performed end-to-end testing to deliver successful promotional features, including **Leg Grading** and **Parlay+**
- Identified and logged critical bugs across various microservices within the application

## PROJECTS

### BetGenius | *Python, Tensorflow*

- Won **first** place in theScore's Summer 2023 Hackathon by working with 5 colleagues to develop a recommendation system to predict betslips
- Developed a machine learning model in **Python** using collaborative-based filtering techniques to analyze a user's betting history
- Implemented data preprocessing, feature engineering, and model training to optimize the accuracy of the recommendations using **Tensorflow**

### Molecule Visualizer | *C, Python, SQL, HTML/CSS, JavaScript, Swig*

- Developed a full-stack molecular visualizer using **C, Python, JavaScript, HTML/CSS, and SQL**, enabling users to view and interact with molecular structures in a web environment
- Built a robust database schema using **SQL**, ensuring data integrity and enabling efficient querying of molecular data
- Created an interactive and responsive user interface, allowing users to easily manipulate and explore various molecules

### AC Portfolio | *React, NextJS, Tailwind*

- Personal portfolio that illustrates my projects, experiences and blog