

Andrew Chow

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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/Frameworks: Java, Python, C, Elixir, JavaScript, HTML/CSS, React, Phoenix, SQL, PostgreSQL, gRPC, Oban, Kafka, ExUnit

Tools: Git, VS Code, Charles, Figma, TestRail, Jira, 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 a Promotions tracker, a product feature to reduce customer inquiries. Analyzed user data, Created product document scopes, Mocked mobile prototypes, and defined KPI's, later presented to Sr. 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