

# Andrew Chow

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## EDUCATION

### University of Guelph

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

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

Guelph, ON

Sept 2020 - May 2025

## TECHNICAL SKILLS

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

**Frameworks/Libraries:** React, NextJS, NodeJS, Phoenix, Tailwind, gRPC, Oban, Kafka

**Development Tools:** Figma, TestRail, Docker, DataDog, Splunk, JIRA, Git, CharlesProxy

## EXPERIENCE

### Software Developer

Jan 2024 - Present

*theScore*

*Toronto, ON*

- Developed an API in **Elixir** and **GraphQL** to enable patrons to register with a user's referral code, integrating them into the Referral Program, enhancing user engagement and growth for **5 million+** users across **theScoreBet/ESPN Bet** platforms
- Created a yearly cron job using **Oban** that queries **1000+** records from theScore's internal data platform, publishing records to the **Kafka** outbox, allowing in-eligible users to be participate in the referral program
- Implemented a service that enqueues workers to generate referral codes during user registration, leading to a **30%** increase in referral program enrollment and boosting overall user engagement

### Software Developer

May 2023 - Aug 2023

*theScore*

*Toronto, ON*

- Optimized Promotion **gRPC APIs**, that effectively resolved network timeouts across multiple back-end services, enabling accessibility for customer service agents within theScoreBet's Player Account Management service
- Developed a service in **Elixir** that enqueues workers to grant **1000+** promotional credits to patrons, elevating customer engagement within the app
- Utilized **Kafka** producers to broadcast promotional credit expiration messages throughout the cluster, enhancing system efficiency and ensuring accurate client-side processing of awards for users

### Teaching Assistant

Jan 2023 - Apr 2023

*University of Guelph*

*Guelph, ON*

- Educated **200+** students by facilitating interactive labs focused on user interface design concepts, fostering a dynamic learning environment that encouraged active participation and knowledge retention
- Assessed student assignments and lab work, delivering comprehensive feedback that supported their academic growth and understanding of the course material

### QA Analyst

May 2022 - Dec 2022

*theScore*

*Toronto, ON*

- Designed a Promotions Tracker feature for theScoreBet, leveraging market insights and user research to enhance the **user experience** and increase **user retention** rates
- Performed smoke, ad-hoc, and regression testing contributing to the release of theScore's proprietary in-house risk and trading platform, resulting in an increase of market offerings and features, including **Parlay+**
- Managed and led the Promotion's test suite, achieving a **70%** increase in test coverage, while developing precise test cases enhancing the overall software quality

## PROJECTS

### BetGenius | *Python, Tensorflow, Figma*

- Achieved **first** in theScore's Hackathon by developing a machine learning model in **Python** and **Tensorflow**, leveraging collaborative based filtering techniques to analyze a user's betting history and accurately predict bets

### 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