

# ANDREW CHOW

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## EDUCATION

### University of Guelph

Bachelor of Computing, Software Engineering (Co-op)

Guelph, ON

Sept 2020 - May 2025

## TECHNICAL SKILLS

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

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

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

## EXPERIENCE

### University of Guelph

Teaching Assistant

Jan 2023 - Present

Guelph, ON

- Educated **1000+** students about computer science concepts, including user interface design, databases, software development, networks and hardware, fostering a dynamic learning environment
- Assessed student assignments and lab work, delivering comprehensive feedback that supported their academic growth and understanding of the course material

### theScore

Software Developer Intern

Jan 2024 - Aug 2024

Toronto, ON

- Developed an API in **Elixir** and **GraphQL** to enable patrons to register with a user's referral code, leading to a **50%** referral completion rate, boosting overall user engagement and reducing customer acquisition cost significantly
- Created a yearly cron job using **Oban** that queries **1000+** records from theScore's internal data platform, publishing records to the **Kafka**, allowing in-eligible users to be participate in the referral program
- Implemented a service that generates personalized referral codes for over **5 million users** across theScoreBet and ESPN Bet platforms by scheduling workers upon consuming user registration and login events

### theScore

Software Developer Intern

May 2023 - Aug 2023

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
- Created components in **Phoenix LiveView** for theScore's CMS tool, allowing the marketing team to grant bulk Promotional Credits to patrons 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

### theScore

QA Analyst Intern

May 2022 - Dec 2022

Toronto, ON

- Designed a Promotions Tracker prototype for theScoreBet, leveraging market insights and user research to increase **user retention** rates across the platform
- Contributed to the development of single-leg grading, enabling the marketing team to create more personalized and dynamic promotions, which led to an increase in **conversion rates** for users
- Managed the Promotion's test suite, increasing test coverage by **70%** through the development of targeted test cases, which resulted in enhanced 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

### HouseScraper | Python, Amazon EC2, Streamlit, Twilio

- Implemented an application, hosted on an **EC2** instance that scrapes listings off Cannon hourly, notifying students via SMS with the latest house rentals within the area

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

- Developed a full-stack application that allows users to create, update, search and import molecular structures in a responsive web environment