

# Andrew Chow

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## Education

University of Guelph

2020 – 2025

Bachelor of Computing, Software Engineering (Co-op)

- GPA: 3.7 / 4.0 (Dean's List Scholar)
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## Skills

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

**Technologies** React, NextJS, NodeJS, Phoenix, Tailwind, gRPC, Oban, Kafka, Figma, DataDog, Kubernetes, Docker, Git

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## Experience

University of Guelph

Jan 2023 – Present

Teaching Assistant

- 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

Jan 2024 - Aug 2024

Software Developer Intern

- Developed an API in **Elixir** and GraphQL to enable patrons to register with a user's referral code, leading to a **30%** increase in referral program enrollment, boosting overall user engagement and reducing customer acquisition costs significantly
- 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 participate in the referral program
- Updated **Kafka** consumers to filter out user actions, including deposits, sportsbook bets and casino wagers for promotions, improving message processing throughout by **50%**

theScore

May 2023 – Aug 2023

Software Developer Intern

- 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 marketing ops to grant bulk user awards to patrons within the app
- Utilized **Kafka** producers to broadcast promotional credit expiration messages throughout the cluster, enhancing system efficiency and ensuring accurate client processing of awards for users

theScore

May 2022 – Dec 2022

QA Analyst Intern

- Designed a Promotions Tracker feature for theScoreBet, leveraging market insights and user research aimed to increase **user retention** rates throughout 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**
  - Performed smoke, ad-hoc, and regression testing, contributing to the release of theScore's proprietary in-house risk and trading system, resulting in an increase in market offerings and features, including **Same Game Parlays**
  - 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
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## 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 to accurately predict bet slips

**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