

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)

Skills

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

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

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 deposit, 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

Jun 2022 – Aug 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
- 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 of 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

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