Andrew Chow

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EDUCATION

University of Guelph — Guelph, ON
Bachelor of Computing, Software Engineering (Co-op) — Sept 2020 - May 2025
- Dean's List: Fall 2020 - Fall 2023
- GPA: 3.7/4.0

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, Kubernetes, Splunk, JIRA, Git, CharlesProxy

EXPERIENCE

Teaching Assistant — Jan 2023 - Present
University of Guelph — 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

Software Developer — Jan 2024 - Aug 2024
theScore — Toronto, ON
- 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 cost 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 be participate in the referral program
- Updated **Kafka consumers** to filter out user actions, including deposits, bets and casino wagers for promotions, improving message processing throughput by **50%**

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
- 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

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