

ANDREW CHOW

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EDUCATION

University of Guelph

Bachelor of Computing, Software Engineering (Co-op) GPA: 4.0/4.0

Guelph, ON

Sept 2020 - May 2025

TECHNICAL SKILLS

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

Frameworks/Libraries: GraphQL, React, Express.js, NextJS, NodeJS, Phoenix LiveView, Tailwind, gRPC, Oban, Kafka

Development Tools: Docker, DataDog, Kubernetes, Splunk, Figma

EXPERIENCE

theScore

January 2024 - August 2024

Software Developer Intern

Toronto, ON

- Developed an API in **Elixir** and **GraphQL** to allowing patrons to register with a user's referral code, acquiring over **50000+** referred users, contributing to **\$80M+ in total cash handle** and **\$2.5M+ in GGR**
- Implemented a service that generates personalized referral codes for over **5M users**, asynchronously scheduling **20+** workers to process **1000+** user registration and login events per minute
- Built **Datadog Monitors** to track referral-related **metrics**, analyzing **consumer lag** across **8+ Kafka producers** to enhance system observability and ensure real-time data processing for **deposits, bets, and casino wagers**
- Developed a cron job using **Oban** to query **1000+** records from theScore's internal data platform and publish them to **Kafka**, enabling ineligible users to join the referral program and enhancing overall **user participation and engagement**

theScore

May 2023 - August 2023

Software Developer Intern

Toronto, ON

- Optimized **gRPC APIs** for theScore Bet's Player Account Management Service by reducing payload size by **50%**, eliminating timeouts, and significantly improving API response times
- Developed UI components in **Phoenix LiveView** for theScore's CMS tool, streamlining bulk Promotional Credit distribution and **decreasing manual effort** by **80%**, enabling the marketing team to launch campaigns **50% faster**
- Engineered an **outbox pattern** with **Kafka** producers to broadcast promotional credit expiration messages, **reducing** message processing failures by **40%**, ensuring accurate client-side award expirations

University of Guelph

January 2023 - April 2025

Teaching Assistant

Guelph, ON

- Educated **1000+** students in computer science concepts, including **UI design, C Programming, Web Development, and general computing**, fostering a dynamic learning environment
- Led the design and delivery of labs for **100+** students, teaching complex topics and guiding students through practical applications to strengthen their understanding of course material

theScore

May 2022 - December 2022

QA Analyst Intern

Toronto, ON

- Contributed to the development of single-leg grading, allowing 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%** with targeted test cases, facilitating the successful release of user-facing features like **Parlay+** and **Opt-in**, while improving overall software quality

PROJECTS

BetGenius | Python, Tensorflow, Figma

- Achieved **first place** 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

Interactive Textbook | Next.js, React, Tailwind CSS, Docker

- Built an interactive **C** programming textbook featuring hands-on coding exercises covering topics such as memory allocation, data structures and algorithms, for over **600+** computer science students.