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

University of Guelph — Jan 2023 - Present
Teaching Assistant — 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 — Jan 2024 - Aug 2024
Software Developer Intern — Toronto, ON
- Developed an API in **Elixir** and **GraphQL** to enable patrons to register with a user's referral code, leading to a **50%** completion rate within the referral program, 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
- 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 — May 2023 - Aug 2023
Software Developer Intern — 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 — May 2022 - Dec 2022
QA Analyst Intern — Toronto, ON
- Designed a Promotions Tracker feature 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**
- 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 application that allows users to create, update, search and import molecular structures in a responsive web environment