ANDREW CHOW

📞 647-970-3639 | ✉ ac.andrewchow@gmail.com | 🔗 linkedin.com/in/acandrewchow | 🌐 andrewchow.ca

EDUCATION

University of Guelph　　　　　　　　　　　　　　　　　　　　　　　　　　　Guelph, ON
Bachelor of Computing, Software Engineering (Co-op) **GPA: 3.7/4.0**　　　　　Sept 2020 - May 2025

TECHNICAL SKILLS

Languages: Elixir, Python, JavaScript, Java, C, HTML, CSS, SQL
Frameworks/Libraries: GraphQL, React, NextJS, NodeJS, Phoenix LiveView, Tailwind, gRPC, Oban, Kafka
Development Tools: Docker, DataDog, Kubernetes, Splunk, Figma, Git, CharlesProxy

EXPERIENCE

University of Guelph　　　　　　　　　　　　　　　　　　　　　　　　Jan 2023 - Present
Teaching Assistant　　　　　　　　　　　　　　　　　　　　　　　　　　　　Guelph, ON
- Educated **1000+** students in computer science concepts, including UI design, databases, software development, networking, and hardware, 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
- Mentored students through one-on-one sessions, providing personalized guidance to enhance their academic skills

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%** referral completion rate, boosting overall user engagement and reducing customer acquisition costs significantly
- Created a cron job using **Oban** that queries **1000+** records from theScore's internal data platform, publishing records to the **Kafka**, 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, asynchronously scheduling workers to process user registration and login events

theScore　　　　　　　　　　　　　　　　　　　　　　　　　　　May 2023 - Aug 2023
Software Developer Intern　　　　　　　　　　　　　　　　　　　　　　　　Toronto, ON
- Optimized Promotion **gRPC APIs** by updating endpoints, reducing payload size and network overhead, resolving timeouts and improving accessibility for customer service agents in theScoreBet's Account Management service
- Built UI components in **Phoenix LiveView** for theScore's CMS tool, empowering the marketing team to grant bulk Promotional Credits to patrons, significantly reducing manual processes and accelerating campaign execution
- 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 prototype for theScoreBet, leveraging market insights and user research to increase **user retention** rates across the platform
- 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

HouseScraper | Python, Amazon EC2, Streamlit, Twilio
- Implemented an application, hosted on an **EC2** instance that scrapes listings off Cannon hourly, notifying students via SMS with the latest house rentals within the area

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