Andrew Durnford

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EDUCATION

University of Western Ontario
Sep. 2023 – April 2027

BSc. Computer Science & Honours Business Administration, Western Scholarship of Distinction — *London, ON*

- **Relevant coursework:** CS2210: Data Structures and Algorithms in Java, CS2211: Software Tools and System Programming (Unix & C), CS2209: Applied Logic for Computer Science, MATH1600: Linear Algebra I, CALC1000: Calculus I, CALC1301: Calculus II, STAT2244: Statistics for Computer Science.

TECHNICAL SKILLS

Languages: JavaScript, Python, SQL, C, HTML, CSS, Java, Swift
Technologies: TypeScript, NodeJS, React, Next, PostgreSQL, Redis, Docker, Git, Pandas, TailwindCSS, Unix, Firebase

EXPERIENCE

Tenacity Labs
Apr. 2024 – Present

Full-Stack Engineer | unfollowed.lol, Repositories: TenacityLabs — *Remote*

- Developed a feature-rich Google Chrome extension for comprehensive tracking of Instagram followers and unfollowers.
- Grew organically to over **2000 weekly users** and reached **5000+ downloads** spanning **over 100 countries**
- Lead backend database development using **PostgreSQL** & **Django** and contributed to **Next.js** frontend.
- Collaborated closely with cross-functional teams of designers and engineers to streamline the development process.

City of Markham
June 2021 – Aug. 2024

Lifeguard — *Markham, ON*

- Supervised **over 200 swimmers and coaches**, promptly addressing emergency situations and public relations concerns.
- Coordinated with a team of Lifeguards to organize and manage swim meets with more than **400 participants**.
- Implemented and maintained a variety of safety protocols, fostering a safe and welcoming environment for all patrons.

Brimacombe Ski Racing Club
Dec. 2021 – Mar. 2023

Competitive Ski Racing Coach — *Orono, ON*

- Coordinated and Implemented rigorous training regime for 8-16 inter-regional to provincial level downhill skiers.
- Tailored individually-suited training drills per skier, ensuring skill development & augmenting their Snow Stars level by 1.
- Cultivated a positive team culture and strong athlete relationships while effectively communicating with parents and staff.

PROJECTS

Valorant ML Match Predictor | *Python, Beautiful Soup 4, Pandas, Scikit-learn* — andrewhdurnford/valpred

- Collected, cleaned, and processed large datasets using **Python** with **BS4** and **Pandas** to enable efficient data analysis.
- Built a **Gradient Boosting Classifier** with **SkLearn** to predict match outcomes, leveraging advanced ML techniques.
- Optimized model with **hyperparameter tuning** and an **Elo rating system**, achieving a prediction accuracy of **70%**.
- Achieved an **expected value of 1.40** on simulated bets, showcasing the model's practical application in the real-world.

Sunflower Capital Landing Page | *Next, HTML, CSS, TailwindCSS, TypeScript* — sunflowercapital.co

- Built a responsive and visually engaging landing page leveraging **modern frontend frameworks** and technologies.
- Integrated custom animations with **Glide.js** and **full-page scroll** effects to create a smooth, immersive user experience.
- Worked closely with designers to ensure consistency with brand identity, aesthetics, and user-centered design.

Retrospect Mobile App | *Swift, SwiftUI, UIKit, Core Data, Firebase* — TenacityLabs/retrospect-frontend

- Developed a mobile app in Swift, emphasizing an intuitive user experience with smooth navigation and a clean design.
- Integrated **Core Data** for efficient local data storage and **Firebase** for real-time data sync, user auth, and analytics.
- Built a responsive and engaging interface using **SwiftUI** and **UIKit**, ensuring a seamless experience across all devices.

Twitter Follow Tracker | *TypeScript, PostgreSQL* — andrewhdurnford/twitter-tracker

- Developed a **TypeScript** program which stores account following data from the **Twitter API** using **SQL**
- Integrated a **Discord Bot** to provide users with timely alerts on new followers, enabling real-time monitoring.