

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 (94%), CS2211: Software Tools and System Programming (Unix & C) (92%), MATH1600: Linear Algebra I (90%), CS2212: Software Engineering (90%)

TECHNICAL SKILLS

Languages: JavaScript, Python, SQL, C, HTML, CSS, Java, Swift

Technologies: TypeScript, NodeJS, React, Next, Backstage, PostgreSQL, Redis, Docker, Git, Pandas, TailwindCSS, Unix

EXPERIENCE

PointClickCare

May 2025 – Present

Co-op, Platform Engineering

Toronto, ON

- Worked within an Agile sprint team to design, develop, and refine **Backstage** plugins (Internal developer platform).
- Implemented components with **React** & **TypeScript**, and built corresponding backend services to enhance functionality.
- Enhanced developer experience and velocity, streamlining service onboarding & enabling teams to spin up projects faster.

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.

PROJECTS

Valorant ML Match Predictor | *Python, BeautifulSoup 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.

PERSONAL INTERESTS & HOBBIES

- Downhill Skiing & Swimming (Competed Provincially), Fitness, Reading, Basketball, Sailing, Triathlon