

EDUCATION

University of Western Ontario

Sept. 2023 – Present

BSc. Computer Science & Ivey HBA, Western Scholarship of Distinction

London, ON

• **Relevant coursework:** CS2210: Data Structures and Algorithms in Java, CS2211: Software Tools and System Programming (Unix & C), MATH1600: Linear Algebra I, CS2212: Software Engineering

TECHNICAL SKILLS

Languages: JavaScript, Python, SQL, HTML, CSS

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

EXPERIENCE

PointClickCare

May 2025 – Aug. 2025

Co-op, Platform Engineering | TypeScript, React, Backstage, Windmill, Azure

Toronto, ON

• Worked within an **agile scrum team** to design, develop, and refine **Backstage & Windmill** automations

• 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

• Integrated user identity with LLM agent workflows, improving security and access control for enterprise deployments

Tech for Social Impact

Sept. 2025 – Present

Project Manager / Software Engineer | Python, Pandas, FastAPI, SQL Server

London, ON

• Leading Financial Revenue Framework modernization for Plan International, a non-profit serving over **80 countries**

• Managing cross-functional team of **3 developers** through project lifecycle, conducting team meetings and client syncs

• Architecting database-driven solution to refactor legacy code, improving maintainability for expense processing

• Consulting with non-profit stakeholders to translate business requirements into tech specs and coordinate software delivery

Tenacity Labs

Apr. 2024 – May 2025

Full-Stack Engineer | Python, Django, React, TypeScript | Repository: TenacityLabs

Remote

• Developed a **Google Chrome extension** for comprehensive tracking of Instagram metrics (followers and unfollowers)

• Grew organically to over **2000 weekly users** and reached **10000+ downloads** in **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

PROJECTS

Valorant ML Match Predictor | Python, Beautiful Soup 4, Pandas, Scikit-learn

andrewhdurnford/valpred

• Collected, cleaned, and processed **36000+** matches with **Beautiful Soup** 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%**

Sunflower Capital Landing Page | Next, HTML, CSS, TailwindCSS, TypeScript

andrewhdurnford/sunflower-nextjs

• 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

PERSONAL INTERESTS & HOBBIES

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