

EDUCATION

University of Western Ontario

Sept. 2023 – May 2028

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, C

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, Jenkins, K8s

Toronto, ON

• Worked within a scrum team to design, develop, and deploy Backstage & Windmill automations within CI/CD pipelines

• 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

Plan International

Sept. 2025 – Present

Lead Software Engineer | SQL Server, TypeScript, React, Python, Azure

London, ON

• Lead architectural overhaul of FRF reconciliation system to webapp with SQL configuration tables for zero-code updates

• Built multi-currency pipeline processing 2 systems (SAP/GP) across 4+ revenue streams with automated allocation

• Architected secure Azure solution (Python/SQL) implementing encryption, authentication, and RBAC for 3 user roles

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 developed key features for 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