Andrew Beaver - Software Developer

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Employment Objective

IT Programming student at NSCC seeking a Spring 2026 work placement where I can apply skills in front end, back end or full stack development to build and maintain real-world software solutions.

Projects

TicketHive | Full-Stack Web Application – Academic Project

- A web application that simulates an online concert ticket purchasing platform.
- Technologies: C#, ASP.NET Core MVC, React, Node.js/Express, SQL Server, Entity Framework Core, Azure Blob Storage, JavaScript, Vite, Git/GitHub
- Built a cloud-deployed ticketing platform with an admin portal, customer-facing React app, and secure Node.js/Express REST API.
- Implemented authentication, CRUD operations, and Azure Blob Storage image handling in the ASP.NET Core admin portal.
- Developed the React frontend with dynamic routing, reusable components, and a validated multi-step purchase workflow.
- Designed API/database architecture with SQL joins, prepared statements, and environment-based configuration across services.

MealWave | Cross Platform Mobile Application – Personal Project

- A mobile application that implements the Warsaw Method for insulin recommendations for complex meals for those with Type 1 Diabetes.
- Technologies: Dart, Flutter
- Built a time-based insulin-to-carb ratio scheduler with editable, auto-sorted ratio entries and persistent data.
- Designed a responsive, validation-driven UI with multi-screen navigation (calculator, history, ratio settings).
- Added dynamic Material 3 light/dark theming and implemented extended bolus duration calculations.

Halifax Transit App | Android Mobile Application - Academic Project

- A mobile app that uses real time location for Halifax Transit buses and ferries and allows users to filter the routes they choose.
- Technologies: Kotlin, Jetpack Compose, RoomDB, Mapbox Maps SDK, GTFS Realtime API
- Built an Android app displaying real-time Halifax Transit bus locations from GTFS Realtime feeds.
- Integrated Mapbox for live bus markers, route shapes, and map interactions within a Compose UI.
- Implemented MVVM architecture with RoomDB to persist route selections and maintain session state.

Arrivio | Full-Stack Web Application – Hackathon

- A web application that notifies a user when to leave their home based on real-time traffic.
- Technologies: React, Vite, Node.js, Express, Google Maps API, Google OAuth, Azure, Notifications API
- Built a commute-planning tool with real-time routing, Google OAuth authentication, and location autocomplete.
- Led frontend architecture, state management, and Maps API integration while collaborating on backend endpoints.
- Coordinated a 4-person team using GitHub workflows and feature branching to deliver under a one-week deadline.

Other Projects

WeatherPal (Android): Real-time weather app using Retrofit + WeatherAPI with GPS-based alerts.

Sentiment Analysis – Machine Learning (ML.NET): C# binary classifier with live retraining UI.

Humans vs Zombies (C++): Object-oriented simulation utilizing polymorphism and inheritance.

Technical Skills

- **Languages:** C#, Kotlin, Java, Dart, C/C++, Python, SQL, JavaScript, HTML/CSS.
- **Web & Backend Frameworks:** ASP.NET Core MVC, Node.js, Express, Entity Framework Core
- **Frontend & Mobile Frameworks:** React, React Native, Flutter, Jetpack Compose.
- **Databases & Cloud:** SQL Server, RoomDB, Azure (Blob Storage/App Service), RESTful API.
- **Design & Architecture:** Object-Oriented Programming (Inheritance, Polymorphism, Encapsulation), MVVM, MVC, Relational Database Design, GTFS Realtime Data, Asynchronous Programming.
- **Tools & Systems:** Git/GitHub, Linux (Bash/CLI), Vite, Mapbox SDK, Google OAuth, Agile Methodologies.

Education

IT PROGRAMMING   **EXPECTED MAY 2026**

Nova Scotia Community College | Halifax, NS

BUSINESS ADMINISTRATION DIPLOMA, MARKETING CONCENTRATION   **2018**

Nova Scotia Community College | Dartmouth, NS

Work Experience

ACCOUNT SPECIALIST | LIFETOUCH CANADA | AUGUST 2022 – JULY 2024
- Coordinated logistics and data workflows for 400+ schools annually, ensuring accurate scheduling and resource allocation.
- Ensured secure handling of all student and staff data by enforcing portal-based collection processes.
- Conducted post-event feedback calls and summarized findings for internal teams to improve operations.
- Maintained databases, calendars, and documentation to support high-volume scheduling and data integrity.

DUE DILIGENCE ANALYST | CASTLE HALL ALTERNATIVES | JANUARY 2019 – OCTOBER 2020
- Supported institutional clients with billions of dollars invested by conducting due diligence verifications, leading process improvements, and reviewing and activating hundreds of funds across multiple products
- Led a verification project with a team of six analysts, reviewing 500+ investment funds under strict deadlines.
- Trained and mentored analysts in Manila, creating process documentation and performance metrics to support onboarding.
- Created and analyzed KPIs to assess team performance and guide process improvements.
- Conducted due-diligence calls with global investment managers to resolve data issues.

Additional Attributes

- Continuously expanding expertise in diabetes technology, including insulin pump systems, continuous glucose monitoring and regulations through hands-on evaluation and industry research.
- Self-taught investor with knowledge of ETFs, brokerage platforms, and market indexes.
- Fluent in spoken and written French with French Immersion Certificate and DELF B1 certification.