

# Carter Rows

Technology Analyst @ Accenture

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## Education

### Bachelor of Engineering Major Computer Engineering

University of Guelph

Sept 2021 - Dec 2025

Guelph, ON

- Graduated with Distinction: Achieved an average >80%
- Relevant Courses: Software Engineering, Data Structures, Algorithms, Operating Systems, System Analysis & Design in Applications, Software System Development & Integration, Reconfigurable Computing, Large-Scale Architecture, Digital Design, Embedded / Real-Time Systems

## Skills

**Programming:** Next.js, React, C, Java, Python, HTML/CSS, TypeScript/JavaScript, SQL.

**Technical Skills:** Cloud (AWS Certified Cloud Practitioner, Azure), Docker, Agile Development, Jira, Git, Technical Writing, MS Office.

**Soft Skills:** Verbal and Written Communication, Problem-solving, Adaptability, Detail Oriented, Time Management, Teamwork.

## Projects

### Budget Tool

February 2026

Personal Project

- Built a self-hosted budgeting app with Next.js, TypeScript, Tailwind CSS, and SQLite w/ authenticated accounts and server-side cookie sessions.
- Designed multi-plan budgeting workflows (create, switch, rename, delete) with autosaved state and monthly cash-flow projections.
- Hardened API security using origin/host checks, restrictive security headers, and rate limiting for auth and general endpoints.
- Containerized deployment using Docker.

### Sweetside Band Website

January 2026

Personal Project

- Built a website for a local band using Next.js, React, TypeScript, and Tailwind CSS with responsive layouts and reusable UI components.
- Used a JSON-driven content system for band details, shows, members, and media, enabling non-technical updates without code changes.
- Containerized deployment using Docker.

### vCard Management System

Winter 2025

Software System Development & Integration

- Developed a C library to parse and validate vCard files according to RFC 6350, handling custom error codes, parameters, and edge cases.
- Built a Python GUI to display, modify, and export vCard data, integrating with a SQLite database for persistent contact storage.
- Implemented end-to-end data flow from file parsing to UI and database operations, ensuring robust memory and error handling.

## Experience

### Technology Summer Analyst

June 2025 - Aug 2025

Accenture

Toronto, ON

- Reduced Azure cloud costs by restructuring Azure Monitor logs, optimizing SQL databases, rightsizing VMs, and leveraging Azure Monitor recommendations.
- Built Power BI dashboards integrated with Azure Cost Management + Billing with automated refresh, MTD filtering, and cost breakdowns by component.
- Developed PowerShell scripts to audit multi-tenant environments for aged Azure resources (e.g., unmanaged disks and snapshots), exporting to structured CSVs.
- Implemented Logic Apps workflow to autoscale Microsoft Fabric capacity on a schedule, reducing off-hours resource spend.

### Network Operations

May 2023 - Sept 2024

Halton District School Board

Burlington, ON

- Installed and configured network hardware, including switches and access points, across schools in the Halton region.
- Diagnosed and resolved network and system issues on board devices such as laptops and desktops.
- Independently developed detailed switch topology and documentation to optimize school network infrastructure.
- Improved network performance and reliability across over 100 schools, ensuring seamless connectivity for students and staff.