

# Yaman Albezreh

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## EDUCATION

**University of Waterloo** 2028  
*Bachelor of Applied Science in Systems Design Engineering, Honours (co-op)* Waterloo, ON

## EXPERIENCE

**Sales Automation and Engineering Support Intern** Sep 2025 – Dec 2025  
*MPI Morheat* Toronto, ON

- Developed **full-stack automation tools** (React, Flask/FastAPI) reducing repetitive manual steps and minimizing human error, achieving a **40% reduction** in manual workload and a **30% decrease** in turnaround time.
- Built shipping-cost models integrating **UPS/FedEx APIs**, improving cost-estimation accuracy by **25%**.
- Automated sales workflows by integrating CRM and internal databases, creating real-time dashboards, streamlining order approvals, reducing errors, and **cutting reporting time by 28%**.

**Founder and Developer** Aug 2025 – Present  
*FrameDetect* Waterloo, ON

- Developing a computer vision **pipeline** using Python, OpenCV, NumPy to extract and stitch drone video frames for precision agriculture with modular architecture, automated preprocessing, and **scalable** deployment workflows.
- Reduced redundant frames by **45%** and improved stitching speed by **35%** through **algorithmic optimization**.
- Implemented end-to-end data ingestion and preprocessing pipelines, improving model training speed and data quality for ML workflows.

**Operations and Data Analyst** Jan 2025 – Apr 2025  
*University of Waterloo - Grand River Hospital* Waterloo, ON

- Created Python tools supporting real-time clinical decision-making using data from **100+ observation shifts**.
- Integrated **ML models** and optimization logic, lowering forecast error by **16%**.
- Worked extensively with **Pandas, NumPy, TensorFlow, Scikit-learn** to clean, transform, and analyze datasets.
- **Led agile-style sprint meetings** with clinical, IT, and research stakeholders to **define software requirements**, demo tools, and iterate solutions, ensuring technical solutions closely aligned with user needs.

**Community Strategy & Data Analyst Intern** Jul 2023 – Aug 2023  
*Waterloo Regional Police Service* Cambridge, ON

- Analyzed regional traffic-incident datasets using **GIS mapping, Excel, and Python** to identify high-risk zones and trend patterns across the Waterloo Region.
- Built **heatmaps and dashboards** to visualize collision statistics, supporting evidence-based safety planning.
- Recommended targeted infrastructure changes (e.g., ramps at roundabouts near The Boardwalk), contributing to a **32% reduction** in traffic and pedestrian incidents across intervention areas.

## PROJECTS

**UniMate** | Market Research, Prototyping, Backlog Management

- [Watch Demo Video](#) — Defined **MVP roadmap** and validated product-market fit with **45% adoption**.
- Scaled to **750+** beta users and secured \$5K funding through social-media outreach generating **50K+** impressions.

**Weather Data System** | React, Next.js, FastAPI, Pydantic

- Implemented a **POST** endpoint in **FastAPI** to accept inputs, fetch data, and store results with unique IDs.
- Built a dynamic front-end interface with **form validation, ID-based lookup**, and a **responsive Tailwind UI**.

**Click2BookNow** | React, Flask, REST API, SQLite

- Implemented **full-stack** scheduling platform supporting bookings, dashboard, and automated email confirmations.
- Developed **RESTful API** endpoints to handle appointment creation, retrieval, and admin-side management.

## TECHNICAL SKILLS & COURSEWORK

**Languages/Frameworks:** Python, C++, Java, JavaScript, TypeScript, React, Next.js, Flask, FastAPI, SQL, Pandas, NumPy, Scikit-learn, TensorFlow, OpenCV, PyTorch, Jupyter, Git, AWS, Azure, Linux, Bash

**Other:** Excel, Power BI, n8n, AutoCAD, SolidWorks, Falstad, Fusion, OnShape, Prompt Engineering

**Coursework:** Data Structures & Algorithms, OOP, Software Design, Version Control, Systems Programming