

Yaman Albezreh

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EDUCATION

University of Waterloo

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

2028

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