

Grant Achuzia

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EDUCATION

Carleton University

Bachelor of Engineering in Computer Systems Engineering

Expected May 2026

Ottawa, Ontario

EXPERIENCE

Lumentum

System Software Solution Test Intern | Design Verification and Test Intern

Jan 2025 – Aug 2025

Ottawa, Ontario

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Maintenance Drone Co.

Software Developer Intern

May 2024 – Dec 2024

Ottawa, Ontario

- Engineered a Python flight-planning suite with Shapely and Matplotlib to parse KML/XML geospatial data into optimized drone waypoints, cutting manual setup times.
- Automated dynamic route optimization—tuning bearing, altitude, and inter-waypoint spacing—for enhanced flight efficiency and battery life.
- Implemented a NumPy-driven grid downsampling and noise-filtering algorithm, sanitizing point-clouds while preserving critical geometry for Blender-based AI annotation.

Roof Maintenance Solutions

Software Developer Intern

May 2022 – Dec 2023

Ottawa, Ontario

- Architected a modular Python class to streamline annotation data import/export in a custom report generator.
- Implemented regex-powered validation routines to detect and auto-correct XML survey annotation errors, boosting report reliability.
- Designed a folder management system that cut user verification times and standardized annotation workflow.

PROJECTS

TRPL-M | Python

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Kortlek | JavaScript

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Unidentified Third Project |

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ACTIVITIES

Canadian Engineering Competition (National Programming Category) 2024 | *Python, JavaScript, HTML/CSS* Mar 2024
Bronze Medalists

- Optimized drill-rig routing on a CSV-driven 100×100 grid using an A* algorithm with environmental-cost heuristics.
- Developed a responsive web UI in HTML, CSS and JavaScript for visualizing extraction paths.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, C, C++, SQL, Bash, PowerShell

Technologies: Git, React, React Native, Docker, Flask, Figma, Linux, LaTeX, GitHub Actions

Concepts: Data Structures and Algorithms, Operating Systems, Computer Architecture, Agile Methodology, Computer Networking