

# JULIEN CHAGNON

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## SUMMARY

Motivated bilingual Computer Engineering student seeking full time summer employment to further develop industry skills and exposure. Proficient in Python, C, and Java, with hands-on experience VHDL and Arduino. Experienced in data management (SQL, HDF5), GIS analysis (QGIS), and CAD modeling (SolidWorks). Adept at problem-solving, debugging, and project collaboration, with a strong foundation in hardware-software integration.

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## WORK EXPERIENCE

### Traffic Services Intern

City of Ottawa – May to August 2025

- Applied data analysis to collect and interpret pedestrian and vehicle survey data to improve roadway safety.
- Used GIS tools to help map and analyze roadway data for traffic investigations.
- Automated form collection workflows using Microsoft Power Automate.

### Graffiti Management Assistant

City of Ottawa – May to August 2024

- Maintained a comprehensive database tracking service requests and task entries for city-wide graffiti removal efforts.
- Performed graffiti removal using equipment such as pressure washers and heaters.
- Followed strict safety procedures for handling corrosive chemicals and maintaining equipment.

### Camp Counsellor

Mountain Bike Kids – June to August 2022

- Supervised campers aged 8 to 14 while planning and leading mountain bike outings and day trips.
- Communicated with parents regarding individual needs, concerns, or complaints.

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## COMPETENCIES, SKILLS, AND ABILITIES

**Languages:** Fluent in French and English

**Programming experience:** C, Python, Java, Assembly, VHDL, and Arduino

**Operating Systems:** Proficient in Windows, familiar with Linux, including basic system navigation and shell scripting

**Data Management & Visualization:** SQL and HDF5 for structured data storage and retrieval, data visualization with Matplotlib and Pandas profiling. Experience in Seaborn and Matplotlib for statistical plotting and analysis

### GIS & Spatial Analysis:

QGIS – Spatial data analysis, geoprocessing, and cartographic mapping

Proficient in Microsoft Office and data entry/database management, and SolidWorks CAD modelling for extensive engineering design projects

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## EDUCATION

### Bachelor of Applied Science in Computer Engineering – Queen's University

2023-2027 (Third Year)

Cumulative GPA - 3.57

- Gained analytical and project management experience through various projects and labs, including designing a 911 responder training simulator for the Toronto Police Service.
- Developed strong teamwork, client service, and initiative skills through group projects and collaborations.

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## CERTIFICATIONS

- Ontario G Class Driver's License (Clean Record)
- Standard First Aid/CPR-C and Automated External Defibrillator Certification (2024)
- AODA Accessibility Training (2021)