

Noah Stevens

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SUMMARY

Motivated and detail-oriented Software Engineering student with hands-on experience in data analysis, **Python** development, and **Agile** team environments through a co-op at Statistics Canada. Skilled in **writing and debugging efficient code**, collaborating across diverse projects, and clearly communicating technical ideas. Eager to apply technical knowledge and teamwork skills in a dynamic co-op position that values curiosity, adaptability, and continuous learning.

RELEVANT EXPERIENCE

Co-op Student

Statistics Canada – Data Integration Infrastructure Division, Ottawa

January 2025 – April 2025

- Built and optimized **Python**-based tools using **Pandas**, **Polars**, and **FastAPI** to streamline address refinement processes for the Canadian Census.
- Used **Git**, **GitHub**, and **GitLab** to manage version control across multiple repositories and collaborate efficiently with team members.
- Developed and tested code within **Jupyter Notebooks**, contributing to both exploratory data analysis and production-ready pipelines.
- Participated in **Agile** workflows, including sprint planning, daily stand-ups, and retrospectives, across a diverse set of internal projects.
- Delivered technical presentations and progress updates in team meetings, communicating complex data workflows clearly to both technical and non-technical audiences.

PROJECTS

WanParser

Statistics Canada – Data Integration Infrastructure Division, Ottawa

- Supported development and stability of an address parsing tool used to preprocess and filter input data for census address refinement workflows.
- Wrote targeted test suites using **pytest** and **unittest** to validate parsing strategies and improve long-term maintainability.
- Debugged and refined existing logic to improve parser's accuracy across a variety of edge cases and input formats.
- Collaborated with the *Wanflow* team to ensure seamless integration of *WanParser* as a plugin in broader pipeline workflows.

Wanpc

Statistics Canada – Data Integration Infrastructure Division, Ottawa

- Developed and debugged a command-line tool for generating **Python** packages with customizable defaults at global, package, and template levels.
- Created a documentation system that automatically generates web-hosted docs based on user input and metadata, using templating and Markdown rendering.
- Contributed to core logic for installation, configuration, and CLI-based customization; resolved bugs and tested edge cases across multiple workflows.
- Delivered progress demos and technical overviews to internal development teams, incorporating feedback into future iterations.

WanFlow

Statistics Canada – Data Integration Infrastructure Division, Ottawa

- Helped build the core logic of a modular pipeline framework used to streamline address refinement workflows for the Canadian Census.
- Designed and implemented a **plugin system**, integrating components such as *WanParser*, *Polars*, *PointInPolygon*, and *SASRunner*.
- Wrote comprehensive test suites using **pytest** and **unittest** to validate core functionality and plugin interoperability.
- Collaborated with senior developers and led development on key features; delivered demos and technical demonstrations to stakeholders and internal teams.