

# Sara Lopez

Backend Engineer - Telecom domain, primarily C++ and embedded services

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## SUMMARY

Engineer with 7 years in telecom infrastructure working on network services and embedded components. Strong C/C++ background and systems debugging, but limited modern Python backend experience, minimal AWS exposure, and little work building product APIs for fast-moving startups.

## EXPERIENCE

### Software Engineer (Network Services) - Telecom Equipment Company

2019 - 2025 | Montreal, QC

- Developed and maintained network control-plane services in C++ running on specialized hardware.
- Worked on performance profiling and memory optimization; improved throughput in lab benchmarks.
- Coordinated with QA and release teams for quarterly firmware releases; minimal customer-facing API work.

### Junior Software Developer - Telecom Systems Integrator

2017 - 2019 | Montreal, QC

- Implemented small features in C and shell scripts; worked with proprietary tooling.
- Limited database work and no cloud infrastructure ownership.

## SELECTED PROJECTS

### Telemetry Collector Prototype

2023 - C++, custom protocols

- Prototyped a collector for device metrics; did not deploy on AWS or integrate with SQL databases.

## SKILLS

**Languages:** C, C++, Bash

**Backend:** Some service development, but not Python-centric; limited REST API design

**Cloud:** No meaningful AWS experience

**Databases:** Minimal SQL

**Other:** Embedded systems, networking protocols

## EDUCATION

### Polytechnique Montreal

BEng, Computer Engineering | 2013 - 2017 | Montreal, QC