

Daniela Castillo

Backend Developer Co-op | Software Developer Co-op

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PROFESSIONAL SUMMARY

Backend developer and recent computer science graduate with two co-op terms writing Python services for a public transit data platform and a clinic booking startup. Comfortable designing REST endpoints with FastAPI, modelling tables in PostgreSQL, writing integration tests against real databases in Docker and reading logs to chase down production bugs.

EXPERIENCE & PROJECTS

Rideau Transit Data Services · Ottawa, ON

Sep 2025 — Dec 2025

Backend Developer Co-op

- Built a FastAPI endpoint serving next-departure predictions to the rider app, with request validation, pagination and an OpenAPI spec the mobile team generated clients from.
- Added a composite index and rewrote a nested query on the stop-times table after profiling it with EXPLAIN, ending timeouts at rush hour.
- Wrote pytest integration tests that spin up PostgreSQL in Docker, catching a timezone bug in service calendar logic before it reached riders.

Glebe Health Booking · Ottawa, ON

Jan 2025 — Apr 2025

Software Developer Co-op

- Implemented appointment reminder jobs in Python with a Redis-backed queue, retrying failed text messages and logging each delivery attempt for support.
- Fixed a double-booking race condition by moving slot reservation into a single database transaction with row-level locking.

Rate-limited URL shortener (Go, Redis)

- Built a small Go service with a token-bucket rate limiter in Redis, structured logs and a load test script documenting throughput limits in the README.

EDUCATION

BCS, Computer Science (Co-op)

2026

Outaouais Valley University

SKILLS

Technical: Python, FastAPI, PostgreSQL, SQLAlchemy, REST API design, Docker, pytest, Redis basics, Linux command line, Git, OpenAPI, GitHub Actions

Certifications: AWS Certified Cloud Practitioner