

Reuben Sinha

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SUMMARY

Software engineer (B.Sc., University of British Columbia, 2024) based in Bengaluru. 19 months of full-time co-op engineering at British Columbia's land title registry, building serverless REST APIs on AWS Lambda and an OCR/NLP pipeline over 50,000+ scanned documents. Ships tested, Dockerized Python/FastAPI and React/TypeScript applications.

SKILLS

- **Languages:** Python, SQL, TypeScript, C#
- **Backend & APIs:** FastAPI, REST API design, SQLAlchemy 2.0, Pydantic, JWT auth, Alembic, pytest
- **Cloud & Data:** AWS Lambda, Snowflake, Docker, Pandas, Power BI, Linux, Git
- **ML & Document AI:** Tesseract OCR, OpenCV, spaCy, scikit-learn
- **Frontend:** React, Vite

EXPERIENCE

LandSure Systems Ltd., Vancouver, Canada

Sep 2024 - Mar 2026

Data Research Analyst, Co-op (full-time). Role scope: backend and ML engineering.

Technology subsidiary of the Land Title and Survey Authority of British Columbia, the province's land registry.

- Designed and built an ML pipeline (OpenCV preprocessing, Tesseract OCR, spaCy, scikit-learn) to flag discriminatory language across 50,000+ scanned historical land title documents, replacing a fully manual review and saving 400+ hours.
- Architected and deployed a serverless REST API (AWS Lambda, Python, Snowflake) for bidirectional sync between the IT Service Desk database and the corporate database, eliminating manual entry and cutting data inconsistencies by 90%+.
- Built a Python desktop tool (PyMuPDF, Tkinter) for page-by-page PII redaction of scanned TIFFs and PDFs, keeping sensitive records off third-party cloud services.
- Developed an internal Python package wrapping the Statistics Canada data API, with a CLI, pandas integration and a full test suite, so analysts pull government datasets straight into their workflows.
- Built Power BI dashboards for IT ticket volume and resolution time, cutting reporting turnaround by two days.
- Delivered in a 5-person Agile team across two projects (20 and 8 sprints) with peer code review; stakeholders were the Customer Service team, Operations and the CIO's office.

Robotiq Technologies Ltd., Vancouver, Canada

Sep 2022 - Dec 2023

Software Engineer Intern (part-time contract, alongside B.Sc.)

- Wrote product design documents and technical specifications for RPA solutions delivered to enterprise clients.
- Developed pytest unit tests and ran script testing for Python-based RPA automation workflows.

PROJECTS

Backloggd Status for Playnite | github.com/reubensinha/PlayniteBackloggdStatus

Jun 2025 - Present

- C#/.NET plugin used by the Playnite community (1000+ downloads, 17 GitHub stars, 2 feature requests) that syncs play status with a site that has no public API; fully async network layer and centralised selectors for maintainability.

Twine Launcher | github.com/reubensinha/twine-launcher

Apr 2026 - Present

- Self-hosted library app for interactive-fiction games (FastAPI, React/TypeScript) with JWT role-based access control, cross-device save sync, session enforcement and backup/restore.
- Shipped as a Docker container and a Windows desktop installer (Tauri, PyInstaller); 61 pytest tests covering every API endpoint; Alembic-managed database migrations.

LN Manager | github.com/reubensinha/ln-manager

Nov 2025 - Present

- Dockerized full-stack app (FastAPI, SQLAlchemy 2.0, Pydantic 2, React/TypeScript/Vite) for cataloguing light-novel series, with release tracking, a release calendar and real-time WebSocket notifications.
- Plugin architecture: metadata sources register their own pipeline stages, API endpoints and UI components, so new providers are added without touching the core.

EDUCATION

The University of British Columbia (UBC), Vancouver, Canada

2019 - 2024

B.Sc., Combined Major in Science (degree granted May 2024)

A global top-50 university (QS). **Computer science** coursework (12 courses), including Algorithm Design & Analysis, Computer Systems, Operating Systems, Internet Computing, Artificial Intelligence and Machine Learning & Data Mining. Top grades: Software Construction 87%, Applied Machine Learning 82%, Algorithms & Data Structures 81%, Relational Databases 76%.

CERTIFICATIONS AND LANGUAGES

- Data Science: Machine Learning, HarvardX (edX), 2023, grade 96% | Intro to Snowflake, Snowflake, 2024
- Languages: English (native), Hindi (native), French (intermediate)