Eric Seppanen

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Education

Simon Fraser University **Burnaby, BC**

Bachelor of Science in Computer Science *May 2027 (Expected)*

- **GPA** – 3.65/4.33
- **President's Honour Roll** – Spring 2024, Spring 2025
- **Relevant Coursework:** Data Structures, Algorithms, Computational Data Science, Database Systems

Experience

Seaspan ULC **May 2025 – December 2025**

Data Engineering & Architecture Intern *North Vancouver, BC*

- Shipped a Dockerized lineage + metadata explorer (**FastAPI** + **React/Vite**) deployed on **Azure Container Apps**; indexed **26k+** tables, **6k+** views, and **1.3M+** columns.
- Implemented a config-driven multi-catalog design (per-system catalog/id + **SQLite** lineage store), enabling one service to host multiple enterprise data domains.
- Prototyped semantic search over metadata using **SentenceTransformers (SBERT)** to retrieve relevant tables/columns beyond keyword matches.
- Automated weekly ARIS data-quality reporting (**SQL Server**, **Python**, **GitHub Actions/SendGrid**), reducing duplicate records flagged per run by **95%** and publishing trend summaries.
- Built a **Python** toolkit against the **ARIS REST API** to automate cleanup and health reports, saving **10+ hrs/month** of manual database cleanup.
- Built **Databricks** ETL from **silver** to curated **gold (Delta)** using **Spark** transforms, powering **BI** and eliminating manual document review.

RWA Group Architecture **January 2025 – April 2025**

Data Engineering Intern *Vancouver, BC*

- Automated timecard reporting with scheduled jobs and checks, cutting **30+ hrs/month** of manual reconciliation.
- Built **Python** ETL to clean/dedupe **300,000+** timecard rows (ID/date normalization, anomaly flags), producing consistent tables for downstream BI.
- Orchestrated a **Azure Data Factory** run to train/score a **scikit-learn Random Forest** for project-billing forecasts.
- Consolidated reporting into **Azure SQL** with versioned tables/views, retiring **35+** spreadsheet trackers and simplifying access.
- Delivered monthly analytics via **SendGrid** (summary email + CSV attachments, trend highlights).

Projects

PlanSFU | *React, Ruby on Rails, SQLite*

- Created a backend data layer powered by **SFU REST API** data (**3,000+** course instances) to support search and degree-planning queries.
- Developed a robust logic parser to convert complex prerequisite statements into structured boolean expressions, enabling automated filtering of eligible courses based on user progress and completed prerequisites.

Neural Movie Matcher | *Django, TensorFlow/Keras, Scikit-learn, Python*

- Engineered a personalized movie recommendation system by integrating Django with a Neural Collaborative Filtering model, utilizing Tensorflow/Keras to predict user preferences and deliver diverse recommendations.
- Developed and trained a scalable neural network with user and movie embeddings, applying L2 regularization and dropout layers to enhance prediction accuracy and prevent overfitting, using data from the Movielens dataset.

LSApp Data Pipeline and Dashboard | *PySpark, Databricks, AWS S3, Tableau*

- Developed a data pipeline using PySpark to process **3,600,000+** app usage events, calculating session durations, engagement metrics, and retention rates.
- Created interactive Tableau cloud dashboards by integrating cleaned PySpark outputs, showcasing app popularity, hourly activity trends, and usage-interaction correlations, enabling data-driven behavioral insights.

Skills

Programming Languages: Python, SQL, JavaScript, Ruby, C, C++, HTML, CSS
Frameworks/Libraries: FastAPI, Flask, Django, React, Node.js, Next.js, TensorFlow, PyTorch, Scikit-learn, PySpark
Cloud & Platforms: Azure (Databricks, ADF, Blob Storage, Container Apps, Azure DevOps), AWS S3, MongoDB Atlas
Databases: SQL Server, Azure SQL, PostgreSQL, SQLite
Tools: Git, GitHub, Docker, Linux, Unix, Bash Jira, GitHub Actions, Azure DevOps, SendGrid, Power BI, Tableau