Landon Reed

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Education

The University of Calgary	Bachelor of Science in Software Engineering
GPA: **3.30 / 4.00**	Expected Graduation: May 2028

Projects

SQL Museum Project
- Designed and implemented a relational database with MySQL to manage art collections, artists, and exhibitions.
- Developed a Python application with interfaces for administrators, data entry staff, and end users.
- Created EER diagrams, relational models, and executed advanced SQL queries for data retrieval and updates.

Powerlifting Web Application
- Built a full-stack web app using React and Flask that scrapes lifter stats from OpenPowerlifting using BeautifulSoup, including lifts, gender, and competition history.
- Implemented features like name disambiguation, manual lifter input with validation, and dynamic sorting/filtering of athlete data based on max lifts.
- Designed a responsive frontend with custom React components, real-time state management, and smooth UX for displaying, comparing, and adding lifters.

Disaster Victim Tracking System
- Developed a Java-based CLI application to manage disaster response data, including victims, inquirers, medical records, and family groups, with a PostgreSQL backend.
- Designed object-oriented models to prevent duplication of person records and implemented logic to load and update relational data efficiently across multiple roles.
- Integrated JUnit tests and a mock database to verify functionality, support test-driven development, and improve the reliability of controller logic.

Experience

Languages: Python, Java, SQL, HTML, CSS, JavaScript, C, C++
Frameworks & Libraries: React, Flask, BeautifulSoup
Developer Tools: Git, PostgreSQL, JUnit