

Landon Reed

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Education

The University of Calgary
GPA: 3.34 / 4.00

Bachelor of Science in Software Engineering
Expected Graduation: May 2028

Projects

Course Management & AI Study Assistant

- Built a full-stack web application using React and Flask with PostgreSQL to manage university course schedules and tasks.
- Developed RESTful API endpoints to support CRUD operations for courses and tasks, leveraging Flask for server-side logic and persistent data storage.
- Implemented dynamic task filtering and rendering using React state hooks, conditional rendering, and prop-based component architecture.

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.

Powerlifting Web Application

- Built a full-stack web app using React and Flask that scrapes lifter data from Open Powerlifting 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.

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.

Experience

Languages: Python, Java, SQL, HTML, CSS, JavaScript, C, C++

Frameworks & Libraries: React, Flask, BeautifulSoup

Developer Tools: Git, PostgreSQL, JUnit, MySQL