Landon Reed

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Portfolio: lreed03.github.io/portfolio

Education

Bachelor of Science, Software Engineering   **May 2028**
Schulich School of Engineering, University of Calgary
- GPA: **3.36 / 4.00**

Relevant Coursework
- Data Structures and Algorithms, Full Stack Web Development, Object Oriented Principles, Applied Operating Systems, Networked Systems, Embedded Systems, Database Management

Projects

Course Management Dashboard
- Built a full-stack application with React, Flask, and Supabase PostgreSQL to manage university course schedules and tasks.
- Designed and implemented RESTful API endpoints with Flask and SQLAlchemy ORM to handle CRUD operations for courses, tasks, schedules, and user records, ensuring efficient persistent data storage in PostgreSQL.
- Integrated Firebase Authentication with Flask JWT token validation for secure, role-based user authentication, authorization, and access control, ensuring data integrity and privacy.
- Developed a dynamic React dashboard leveraging React hooks, state management, conditional rendering, reusable component architecture, and responsive design to improve scalability, usability, and maintainability.

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 and implemented PostgreSQL schemas and relational tables to organize disaster response data, ensuring accurate storage and retrieval of records.
- Preformed objectives of Test-Driven Development, executing 50 test cases through JUnit.
- Planned and coordinated project workflows for a 4-member team, scheduling meetings, assigning responsibilities, and keeping on track to meet all deadlines.

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.

Work Experience

Ranch Hand – *Bregliano Enterprises Ltd.*   *July 2022 - Present*
- Facilitated daily ranch operations including livestock care, feeding, and facility upkeep.
- Operated and maintained farm equipment to support seasonal tasks.
- Ensured safe and efficient handling of animals while following workplace safety protocols.

Technical Skills

Languages: Python, Java, SQL, HTML, CSS, JavaScript, C, C++
Frameworks/Libraries: React, Flask, BeautifulSoup, SQLAlchemy
Developer Tools: Git, PostgreSQL, JUnit, MySQL, Firebase, SQLite