

Joel Lawrence

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TECHNICAL SKILLS

- * Proficiency in programming languages: Java, Python, C, JavaScript, HTML, UNIX, LaTeX, R.
- * Proficiency with machine learning and statistical methods/theory.
- * Familiarity with Git, SQL, React, Jupyter Notebook, RStudio, Android Studio, Tableau, Excel.
- * Interest in learning Node.js, C#, CSS, Go, and expanding knowledge in React, Javascript.

ACADEMIC PROJECTS

Computer Science Capstone Project

Jan 2023 - Apr 2023

- * Worked in a team of three to analyze data pertaining to electrical power usage to forecast household power consumption.
- * Researched and applied machine learning methods, including artificial neural networks and random forest models, on collected time series data.

Statistical Analysis – MLB Salary Prediction

Sep 2022 - Dec 2022

- * Worked with a classmate to predict Major League Baseball hitter salaries using applied regression analysis methods, such as AIC, BIC, and LASSO model selection techniques.
- * Web-scraped and cleaned data using Pandas and Python, with model selection done in R.

Property Assessment Application

Sep 2022 - Dec 2022

- * Developed an application to assess Edmonton properties using object-oriented programming design patterns with Java and JavaFX WebView.
- * Implemented map feature using HTML and JavaScript with the Google Maps JS API.

Shift Scheduler Application

Jan 2022 - Apr 2022

- * Collaborative project utilizing the SCRUM framework to develop a shift scheduling application for android devices.
- * Constructed SQLite database & queries and constructed front end elements in Android Studio.

HackED 2022 Submission – Oricloud

Jan 2022

- * Built a project similar to Folding@home that allows participating users to contribute their compute power to aid in data processing for biomedical research.
- * Submitted for 24-hour hackathon from the Computer Engineering Club of the UofA.
- * Developed in a team of four using FastAPI, Python, TypeScript, JavaScript, React, WebAssembly and uses a script to embed on websites that will run jobs as users visit them.

WORK EXPERIENCE

Student Marker

Jan 2023 - Apr 2023

MacEwan University • Edmonton, Alberta

Sought out by professor to provide feedback for assignments in a senior-level statistics course.

Front End Staff

Oct 2022 - Present

Loblaws City Market - Brewery District • Edmonton, Alberta

Customer service experience – handling returns, calls, and training front end coworkers.

EDUCATION

Bachelor of Science

Sep 2018 - Apr 2023

MacEwan University • Edmonton, Alberta

Major: Computer Science Minor: Statistics