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
    Marking and providing feedback for assignments in a senior-level statistics course.

Front End Staff   *Oct 2022 - Present*
Loblaw 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