Liam Kelly

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Education

Bachelor of Science *Memorial University, St. John's, NL*
Computer Science *to be awarded: Oct 19th 2023*

Work Experience

Frozn *Sept 2020 - Present*
Co-owner *St. John's, NL*

- Established a freeze-drying e-commerce business [frozn.ca], as a side venture while pursuing my studies.
- Expanded locally through wholesale partnerships with businesses like Colemans, The Urban Market, The X Store, and others.
- Designed and developed a database which provides a structured and efficient way to store data, quickly retrieve specific information, and ensure data integrity.
- Utilized the database to produce data visualizations, enabling analysis of sales trends and product performance. This helped in formulating data-informed strategies to drive business expansion and enhance sales outcomes.

Milk Moovement *April 2019 - Sept 2019*
Software Developer Intern *St. John's, NL*

- Developed a full-stack web application using the React library, in combination with the Material UI library.
- Firebase Realtime Database was used to ensure efficient data exchange between front/back end.
- Streamlined data entry process by introducing intuitive and user-friendly forms, enhancing the ease of inputting essential school/promotion related information.
- Devised tables that proficiently highlighted data submitted through the forms, contributing to an optimal and visually appealing representation of information.
- Created data visualizations that extrapolated valuable insights from given CSV data sets, with a particular emphasis on analyzing milk-related data.

Projects

Job Board *Live demo*
React, Node.js, Mongo, Express, Material UI, JSON Web Token, Heroku

- Developed a full-stack job board application to enhance my job search experience. Constructed using the JBoard API from RapidAPI, this tool scans through numerous popular job boards such as LinkedIn, Glassdoor, Indeed, and many others. Simplifying the job search processs by eliminating the need to navigate multiple websites to see job postings.

Pathfinding Algorithm Visualizer *Live demo*
JavaScript, HTML, CSS

- Developed a front-end pathfinding visualizer. Generates a random maze, then displays how the algorithms search by visualizing each iteration, and then displays the shortest path to the goal node when found. By employing powerful algorithms like Breadth-first Search and Depth-first Search, users gain a deeper understanding of pathfinding techniques through a visually engaging experience.

Weather Dashboard *Repository*
JavaScript, Express, Node.js, Mongo, Mocha, jQuery

- Developed a full-stack weather dashboard application using OpenWeatherMap API's to incorporate fetched weather data. Custom modules were implemented for functions such as user registration, user login, searching, bookmarking, and deleting bookmarked weather data. Follows a MVC design pattern. Mocha was used for testing the potential usage scenarios.