


JAYDEN LACHHMAN

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Skills

- Python | Java | JavaScript | SQL | Node | Express | ReactJS | HTML | CSS | Git | Jest | Unit Testing
- Google Docs | Trello
- English - *Professional proficiency or above*

Projects

BikeWatch

03/2023

- Collaborated with a team of 4 to design, build, and test a ReactJS Web Application which allows users to visualize bike theft statistics
- Implemented Python data processing scripts to extract GeoJSON information from City of Ottawa website
- Used Model-View-Controller (MVC) software design pattern to separate UI and app logic allowing scalability in the software architecture
- Leveraged agile methodologies to coordinate task management and progress monitoring to ensure efficient feature development

GlassHouse

02/2023

- Collaborated with a team of 2 to design, build, and test a ReactJS Web Application which allows users to compare housing information (e.g., evaluations, market price, average selling price by neighborhood) for cities across the United States using Realty Mole API
- Implemented data visualization component using JavaScript for fetching and displaying information pertinent to the user's search
- Designed automated user testing with Jest to assess page and component rendering

Information Retrieval System

02/2023

- Designed Information Retrieval (IR) System which returns the top 1,000 of 80,000 documents matching 50 test queries
- Implemented an index scheme by integrating preprocessing functions from the Python Porter Stemmer library
- Developed Inverted Index based on tf-idf weighting schemes to optimize term and document access speeds

Byblos Car Rental

09/2021 - 12/2021

- Collaborated with a team of 4 to design, build, and test an Android Studio application using Java which allows users to rent vehicles from an imaginary car rental company called "Byblos"
- Designed and updated software architecture to reflect development changes
- Developed classes for users for which the data was pushed into a Firebase Database for user authentication

Real-Time Systems

01/2023

- Collaborated with a team of 5 to design a real-time embedded system
- Used Trello and BitBucket to develop beginner project management experience

Education

Bachelor of Science

University of Ottawa

Ottawa, ON, Canada

09/2019 - Current

- Mathematics