

David Zhao

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EDUCATION

University of Waterloo

Bachelor of Computer Science (Co-op) — Cumulative GPA: 3.84

Waterloo, ON

Sept. 2023 – Present

PROJECTS

Fakebook | Node.js, Express.js, React, MongoDB

[Live Site](#) | [Repository](#)

- Built a social media platform allowing users to create posts, view content, and manage their social connections.
- Engineered the front-end using **React** and **Material UI** to ensure an user-friendly interface.
- Utilized **React Redux** and **useState** hooks for efficient state management and dynamic updates in response to user input.
- Employed **Redux Persist** and **JSON Web Tokens** for secure, persistent storage of user login data across sessions.
- Integrated **MongoDB Atlas** for cloud-based storage and retrieval of user data and posts.
- Developed a **RESTful API** with **Express.js** and **Node.js** to facilitate **CRUD** operations to database and handle authentication and authorization for user logins
- Implemented encryption using **bcrypt** to securely store user passwords
- Orchestrated asynchronous fetch calls to establish efficient communication between the front-end and back-end, ensuring seamless data retrieval and updates.

Employee Management System | Node.js, Express.js, MongoDB, EJS

[Live Site](#) | [Repository](#)

- Created a full-stack web application to streamline employee data management by storing information on a cloud-based platform.
- Built a user-friendly dashboard with employee data display, creation, modification, and deletion using **EJS** and **Bootstrap**
- Implemented a **MongoDB Atlas** cloud database for optimized data storage and retrieval processes of employee information.
- Developed a **RESTful API** with **Express.js** and **Node.js** to seamlessly handle **CRUD** operations for employee records in database.

Brewtiful | React, HTML, CSS

[Live Site](#) | [Repository](#)

- Created a coffee e-commerce platform front-end using **React** and **styled components** with product data fetched from Fake Coffee API.
- Utilized **React Router** for navigation across multiple pages and dynamically fetching specific product details using router parameters
- Optimized data management and front-end responsiveness with **useState**, **useEffect**, and **useMemo** hooks.

EXPERIENCE

Lifeguard/Swim Instructor

City of Markham

Sept. 2022 – June 2023

Markham, ON

- Demonstrated strong interpersonal skills by effectively communicating with both guests and team members
- Implemented preventive measures to minimize water-related incidents, such as proper signage placement and proactive hazard identification
- Developed and implemented age-appropriate swim lesson plans catering to the individual needs and skill levels of children
- Fostered a positive and encouraging learning environment to build children's confidence and comfort in the water

TECHNICAL SKILLS

Languages

JavaScript, Python, Java, SQL, HTML/CSS, EJS

Libraries/Frameworks

React, Node.js, Express.js, Jest, Redux, Bootstrap, Material UI

Technologies

MongoDB, MySQL, Git, Linux, VS Code