

Micheal Lowell

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EDUCATION

Master's, Linguistics (inc.) **September 2021 - May 2022**
University of Western Ontario *London, Ontario*
Relevant Coursework: Computing & Informatics I, Data Structures & Algorithms

Bachelor's, Linguistics & Japanese **September 2016 - May 2019**
Boston University *Boston, Massachusetts*
Received Barbara Argote Senior Award for Excellence in Japanese & Linguistics

TECHNOLOGIES

Languages: Javascript, Python, Java
Frontend: React, React Router, Framer, React Spring, HTML5, CSS3
Backend: Node.js, Express.js, MySQL
Other: Git, GitHub, Jest, npm, Webpack

PROJECTS

Cookbook App

Technologies: Javascript, React, React Router, Node.js, Express.js, MySQL, CSS3, HTML5

- Developed a full-stack application for storing recipes and organizing them based on user provided criteria
- Leveraged several external libraries to build basic functionality
- Incorporates login feature using SHA-256 encryption
- Actively developed based on user feedback

Weather App

Technologies: Javascript, React, HTML5, CSS3

- Developed weather app that pings OpenWeather API and TimezoneDB API to provide both weather and approximate date and time for a provided location by using fetch requests, and asynchronous functions
- Makes effective use of component states to provide up-to-date data for a given query
- Provides short forecast via dialogue box printed via setTimeout
- Built using a Windows 2000 theme

Shopping Cart

Technologies: Javascript, React, React Router, Framer, CSS3, HTML5, Jest

- Developed mockup of an ecommerce website that allows the user to update their cart with unique items each with their own price
- Implemented smooth animations between routes using Framer Motion
- Utilized react-parallax-mouse to create a "zoom and move" effect on product pages
- Built using a Resident Evil 4 theme

Memory Card

Technologies: Javascript, React, React Spring, HTML5, CSS3

- Developed a short memory game using React wherein the user selects various cards
- Made effective use of useRef hook to prevent stale state closures
- Created transitions between game states using React Spring

Battleship

Technologies: Javascript, HTML5, CSS3, Jest

- Built functioning Battleship game using test-driven design practices in plain Javascript
- Leverages drag-and-drop API to allow the user to manually place ships without specifying coordinates
- Computer player utilizes stack data structure to store hits and make logical next moves

WORK EXPERIENCE

Teaching Assistant September 2021 - May 2022

University of Western Ontario *London, Ontario*

- Served as additional support to students enrolled in an introductory Linguistics course
- Responsible for grading ~100 assignments each week
- Hosted optional study sessions outside of regularly scheduled office hours
- Communicated student pain points and difficulties to supervisor for lesson planning purposes