Luke Heo

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**relevant Skills**

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| * Web Development:React, HTML, CSS, jquery, Node.js, Express.js, TS, Bootstrap, Restful API, Agile, CI/CD * Programming Language: C/C++, JAVA, Linux, Software Design Pattern (MVC, Observer, Singleton) * Database: Oracle, MongoDB, SQL | * Time management * Organization * Collaboration * Analysis Decision-making * Problem-solving * Adaptability * Positive attitude |

**Projects**

**Netflix Clone** — React.js, TypeScript

* Applied Test-Driven Development (TDD) principles to ensure code quality and reliability, as well as utilized REST API, Framer Motion, React Hook, Styled Components, React Router, Axios, and Asynchronous setState to implement features
* Implemented smooth animation using Framer Motion library on sliders, modal windows, logos, and more
* Delivered API values to the detail page using React-router-dom's useLocation and useMatch functions, displaying the existing data and the detailed information API on the screen
* Implemented a function to recommend a similar movie or TV on the detail screen using similar design components as reuse components in different situations

**Catch Mind** — VanillaJS, SCSS, ExpressJS, Socket.IO, Gulp

* Implemented features such as chatting board, scoreboard, notification messages, and user identification
* Built a real-time drawing game using Vanilla JS, Noje.js, SCSS, ExpressJS, Socket.IO, and Gulp
* Utilized Socket.IO library for real-time communication between clients and the server
* Employed Events, Emit Events, and Broadcast Events for dynamic interactions between the players
* Used Canvas API to enable live painting functionality and to draw on a shared canvas in real-time

**Drag-n-Drop Trello** — React.js, TypeScript

* Implemented input forms using React Hook Form to receive input values
* Managed the application status using Recoil's atoms to globally manage the saved message list and application status
* Utilized Beautiful DnD library to implement drag-and-drop function for each board, and changed colors of the board and messages during drag

**Momentum** — JavaScript, AJAX, DOM

* Utilized local storage to save user's name and today's to-do list
* Used JavaScript's Navigator.geolocation.getCurrentPosition function to obtain API, LAT, and LON and provide the user's city, weather, and temperature from https://openweathermap.org/
* Implemented quote and wallpaper random function using Math.Random function
* Created a stopwatch function with the ability to save and delete the time wrap history and deactivate the start button to prevent time from passing quickly

**Crypto Tracker** — React.js, TypeScript

* Utilized React Query to receive data from cryptocurrency APIs and show real-time coin information
* Implemented light and dark mode switching using Styled Components and Recoil
* Used Apex Charts to visualize price changes in cryptocurrencies and to show them in charts during infinite scrolling
* Imported data from Crypto Price API using React Query

**Chat Application** — Java

* Built a Java program using JavaFx, socket programming, and Java I/O for real-time communication between multiple clients and a server
* Utilized low coupling and high cohesion to ensure that the application is modular, flexible, and easy to maintain
* Used inheritance and polymorphism to create dynamic and flexible code
* Implemented exception handling to ensure that the program can handle errors and exceptions gracefully.

**Work Experience**

**Second Deck Officer**

CK Line Co., Ltd. | Burin, South Korea | May 2015-Aug 2018

* Collaborated with deck officers and crew members to ensure safe and efficient vessel operation, developing teamwork skills.
* Managed navigational equipment and resources, demonstrating strong time management and organizational skills.
* Prioritized efficient operations to ensure vessel deadlines were met, while maintaining strict compliance with international maritime regulations and procedures.
* Maintained accurate and detailed records of all operations, including cargo, maintenance, and safety reports, showcasing attention to detail and data management skills.

**Education and Training**

Computer Programming (GPA 3.7)

Seneca College | | Toronto, ON | December 2021

* **Relevant Courses:** Intro into programming using C, Intro UNIX/Linux and Internet, Intro into Database Systems, Object Oriented Programming, Web Programming Principles, Advanced Database Service, Software Analysis and Design I, Web Prog. Tools and Frameworks, Intro to Java C++, Web Program Apps and Services

**Websites, Portfolios, Profiles**

* github.com/lukeheo8592 portfolio website
* linkedin.com/in/lukeheo