

Jongjin Jung

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Skills

Languages C, C++, Java, Javascript, Python, HTML, CSS, ARM Assembly

Frameworks React, Node.js, Express, Bootstrap, Gatsby, React Native

Database MongoDB

Other technologies Git, GraphQL, Pytorch

Experience

BOSTON UNIVERSITY LISP (Learning, Intelligence, and Signal Processing)

Boston, Massachusetts

SUMMER RESEARCH INTERN

May 2021 - Aug 2021

- Developed a neural network model that uses target propagation, which overcomes the vanishing gradient problem of backpropagation using the Pytorch library
- Working on computational graphs of scalar functions and simple matrix functions
- Anomaly detection

Projects

GIS Mapping Software

C++, GTK [CLICK HERE FOR VIDEO]

Jan 2021 - Apr 2021

- Developed a city mapping software in C++ using the OpenStreetMap API with two teammates using git version control
- Created a navigation system using path finding algorithms (Dijkstra, A* Heuristics)
- Optimized Travelling Salesman Problem using 2-opt, 3-opt, and simulated annealing, came 28th out of 100+ teams

US Covid-19 Tracker

JAVASCRIPT, REACT

Jun 2021

- Developed a Covid-19 Tracker of all states in the US using the Covid Act Now API
- Utilized Axios to fetch data from the API. Used React-Router to navigate different pages
- Imported Chart.js and Material-UI library to visualize Covid-19 data

Customizable Blog Template

JAVASCRIPT, NODE.JS, EXPRESS, EJS, MONGODB

Jun 2021 - Jul 2021

- Developed a general blog template with user authentication(JWT) that connects to the user's MongoDB local database
- Utilized Express for the backend to handle retrieving, creating, and deleting blog posts with multer library to handle image uploads
- Created frontend using the EJS view engine to render blog posts and handle user input

TTC Subway API

JAVASCRIPT, NODE.JS, EXPRESS, EJS, MONGODB CLOUD

Jun 2021 - Jul 2021

- Developed a TTC Subway API with information of each subway station's line number, location, and average ridership
- Implemented ability to add more stations to the API for future expandability
- Backend is connected to a MongoDB Cloud database

Cocktail Searcher

JAVASCRIPT, REACT, NODE.JS, EXPRESS

Jul 2021 - Aug 2021

- Developed a cocktail searcher that browses through all existing cocktails and view the image, ingredients, and instructions of a cocktail
- Created backend fetching JSON from TheCocktailDB API using Axios which returns parsed data to the frontend
- Used React Router for routing to render dynamic pages based on the requested cocktail

Checked-To-Do

JAVASCRIPT, REACT NATIVE [LINK TO APPSTORE]

Jul 2021 - Aug 2021

- Developed a To-Do-List App that allows users to manage their tasks by checking them off once completed
- Tasks can be sorted based on their due date or the completion status
- Data is stored in the local device using AsyncStorage API which handles adding, modifying, and deleting tasks

Education

University of Toronto

Toronto, Canada

BACHELOR OF APPLIED SCIENCE IN COMPUTER ENGINEERING

Sep 2019 - May 2024

- Relevant Courses: Relevant Courses: Software Communication & Design, Computer Organization, Signals and Systems, Digital Systems, Programming Fundamentals, Computer Fundamental, Calculus I, II, III