

Jongjin Jung

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Skills

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

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

Other technologies Git, MongoDB, GraphQL, Pytorch

Experience

RAPSTUDY

Ithaca, New York

FULL STACK DEVELOPER - JAVASCRIPT, REACT, FIREBASE

Sep 2021 - Present

- Building a web and mobile platform to help teachers educate kids in school through music
- Deployed app through Firebase and structured database security rules to manage access
- Created frontend using React to filter songs based on the educational standards

UofT EPAl (Ethical Principles in Artificial Intelligence)

Toronto, Ontario

VICE PRESIDENT

Sep 2021 - Present

- A student-founded club that organizes projects and workshops to help students to better understand ethics in AI
- Responsible for assisting projects, workshops, and creating newsletters
- Summarized research papers to make ML-related research topics more approachable

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

Boston, Massachusetts

RESEARCH ASSISTANT - SUPERVISED BY PROFESSOR SANG "PETER" CHIN AND PHD CANDIDATE PEILUN DAI

May 2021 - Aug 2021

- Developed recurrent neural network models which are biologically plausible that go beyond backpropagation using Pytorch
- Experimented on computational graphs of scalar functions and matrix functions
- Assisted in writing an academic paper on biologically plausible models by implementing target propagation and direct feedback alignment

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

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

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