

Jongjin Jung

Toronto, ON / Boston, MA

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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 [LINK FOR DEMO]

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

Monocle (NewHacks Hackathon Winner)

JAVASCRIPT, PYTHON, REACT, FIREBASE, FLASK [LINK TO DEVPOST]

Nov 2021

- Developed a software that simplifies privacy policies into data collected and how it's used, highlights subsections with the keywords
- Created frontend to take in user input as a link or PDF of the privacy policy
- Fetched parsed JSON from the backend via axios, then processed and displayed simplified privacy policy data

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

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

Education

University of Toronto

Toronto, Canada

BACHELOR OF APPLIED SCIENCE IN COMPUTER ENGINEERING

Sep 2019 - May 2023

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