

Jongjin Jung

Toronto, ON / Boston, MA

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Skills

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

Frameworks React, Node.js, Kafka, Docker, Kubernetes, Express, Gatsby, React Native, Selenium

Other technologies Git, Jira, Confluence, Figma, Teamcity, MongoDB, GraphQL, Firebase, Pytorch

Experience

Oracle

Toronto, Ontario

SOFTWARE DEVELOPER INTERN - JAVA, TYPESCRIPT, C#, REACT, SPRING, KAFKA, DOCKER, KUBERNETES

May 2022 - April 2023

- Migrated a microservice into an external cloud native application (knative) and deployed as a serverless function, running parallel with the provider that increased scalability and flexibility
- Implemented an event driven architecture using Apache Kafka to send and receive cloud events between the provider and the cloud native application
- Developed and deployed an API library that enables CRUD operations in Vault in order to manage AES secrets for pod configurations, further enhancing encryption and security
- Developed a faster and user-friendly frontend to replace the old Eloqua UI through TypeScript & React that renders/manages its components, and saving/deleting data to the server
- Wrote automation test cases using Selenium in C# to verify the developed functionalities and meet the required time constraints

rapStudy | EdTech startup

Ithaca, New York (Remote)

SOFTWARE ENGINEER INTERN - JAVASCRIPT, REACT, NODE.JS, FIREBASE

Sep 2021 - Dec 2021

- Built a web and mobile software platform to help teachers educate kids in schools through music and lyrics in over 30 schools
- Performed real-time data reads and writes on a Firebase database and structured database security rules to manage user access
- Developed a standard alignment feature that filters songs based on the NY State educational standards
- Implemented a responsive and dynamic design through conditional rendering and media queries

Boston University LISP (Learning, Intelligence, and Signal Processing)

Boston, Massachusetts

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

May 2021 - Aug 2021

- Developed recurrent neural network models which are biologically plausible that overcomes the limitations of backpropagation using the Pytorch library
- Experimented the recurrent neural network models on computational graphs of scalar functions and matrix functions
- Assisted in writing an academic paper on biologically plausible models by implementing and testing target propagation and direct feedback alignment
- Participated in ATD (Algorithms for Threat Detection) to develop anomaly detection algorithms to detect unusual traffic congestion

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

Education

University of Toronto

Toronto, Canada

BACHELOR OF APPLIED SCIENCE IN COMPUTER ENGINEERING

Graduating May 2024

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