

Jongjin Jung

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EDUCATION

University of Toronto

Bachelor of Applied Science in Computer Engineering, Minor in Artificial Intelligence

Toronto, ON

Graduated June 2024

EXPERIENCE

Software Developer

May 2022 – April 2023

Oracle Corporation

Toronto, ON

- 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

Software Engineer Intern

Sep 2021 – Dec 2021

rapStudy — EdTech startup

Ithaca, NY (Remote)

- Developed a web and mobile software platform for music-based education in 30+ schools to support teachers
- Conducted real-time data operations on Firebase and structured database security rules for access management
- 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

Machine Learning Research Assistant

May 2021 – Aug 2021

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

Boston, MA

- Supervised by Professor Sang "Peter" Chin, developed recurrent neural network models which are biologically plausible that overcome the limitations of backpropagation using the Pytorch library
- Implemented and tested the RNN 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 to develop anomaly detection algorithms to detect unusual traffic congestion

PROJECTS

Monocle (NewHacks Hackathon Winner) | JavaScript, Python, React, Firebase, Flask

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

GIS Mapping Software | C++, GTK

Jan 2021 – Apr 2021

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

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, TypeScript, C/C++, C#, SQL, HTML/CSS, ARM Assembly

Frameworks: React, Node.js, Flask, Kafka, Kubernetes, React Native, Gatsby, Selenium

Other Technologies: Git, Jira, Confluence, Figma, Teamcity, MongoDB, GraphQL, Firebase, Pytorch