

Jongjin Jung

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EXPERIENCE

Software Engineer

Feb 2025 – Current

REEKON Tools

Boston, MA

- Developed a web and mobile application to streamline measurement capture on construction sites with real-time synchronization, reducing overall workflow time by 80%
- Designed and implemented an annotation interface enabling users to annotate PDFs, images, and 3D models, while dynamically overlaying captured measurements within the viewer
- Integrated Bluetooth Low Energy (BLE) to connect hardware devices with the mobile application, enabling real-time measurement transfer and remote firmware upgrades
- Built a device management interface to track devices, associated tests, and packaging across global factories, collaborating with the NPI team to ensure production accuracy and compliance with product standards
- Developing an AI application engine using Retrieval-Augmented Generation (RAG) to aggregate company documents (text, images, and videos) and generate dynamic HTML pages in response to user queries

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

EDUCATION

University of Toronto

Toronto, ON

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

Graduated June 2024

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, Django

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