

Eunie (Eunheui) Jo

Waterloo, Ontario | euniejodev@gmail.com | <https://euniejo.me/> | [LinkedIn](#)

PROFESSIONAL SUMMARY

- AI Engineer with experience in NLP and LLMs, machine learning, and cloud computing, proficient in Python, JavaScript, and C++.
- Developed AI-powered chatbots using Retrieval-Augmented Generation (RAG) and embeddings-based search, improving knowledge retrieval and user interaction.
- Experienced in designing and deploying scalable architectures for multi-tenant web services and real-time, data-driven dashboards using InfluxDB and Grafana.
- Worked with REST APIs and front-end development with React to build an AI-powered chatbot system.
- Hands-on experience in cloud infrastructure (Azure, AWS) and CI/CD automation using GitHub Actions.

SKILLS

HTML/CSS/JavaScript	ASP.NET/MVC	AWS (EC2, S3, Route53)
C#	SQL/NoSQL/InfluxDB	Azure (Virtual Machines, App Services)
Python	Web Services	Version Control (Perforce/Git)
C++	REST APIs	Linux (Tizen Framework)

PROFESSIONAL EXPERIENCE

AI Software Developer, Freelance - Conestoga Entrepreneurship Collective May 2025 – Present

- Started my freelance business specializing in AI and software development, supported by the Conestoga Entrepreneurship Collective's Gig Lab, a business incubator for independent professionals.

Software Engineer, CVRI - Centre for Virtual Reality Innovation Sep 2024 – Apr 2025

Development of Educational Chatbot Service

- Developed a chatbot using RAG (Retrieval-Augmented Generation) to provide intelligent responses based on embedded course materials.
- Built a reliable Python-based backend and a responsive React frontend to ensure smooth and interactive user experience.

Sensor Data Integration and Real-Time Visualization in XR

- Integrated sensor data into an XR dashboard using InfluxDB, Grafana, and Tilt Five for real-time monitoring and analysis.

AI Software Engineer, Conestoga College SMART Center May 2024 – Aug 2024

Sensor Data Processing and ML Model Development

- Processed manufacturing sensor data and built ML models to detect anomalies and solve automotive production issues.

Software Engineer, Samsung Electronics, South Korea Feb 2012 - July 2022

Speech Recognition Solution Integration and Development

- Developed **middleware for speech recognition**, handling voice data acquisition, signal preprocessing, and embedded ASR for challenging environments.
- Integrated the solution into embedded systems and improved accuracy, speed, and noise robustness through extensive testing and optimization.

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SOFTWARE PROJECT

Intercompany Assistant

GitHub: <https://intercompany.euniejo.me/>

Tech Stack: *Next.js, React, Google AI (Gemini), Node.js, Retrieval-Augmented Generation (RAG)*

- AI-powered assistant provides instant, accurate answers to supply chain inquiries.
- Reduces repetitive questions and fosters organizational learning.
- Request a private demo to see it in action.

AI-Powered Cooking Assistant Service

Demo: <https://cooking.euniejo.me/>

Tech Stack: *Python, Streamlit, OpenAI (GPT), Retrieval-Augmented Generation (RAG)*

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- Reduces repetitive questions and fosters organizational learning.
- Request a private demo to see it in action.

EDUCATION

Conestoga College – Computer Programming & Analysis

Waterloo, Ontario, Canada

2022-Present

Korea University - Master of Engineering: Electrical Engineering,

Graduated in 2012 | Seoul, South Korea

Chungbuk National University - Bachelor of Engineering: Electrical and Computer Engineering,

Graduated in 2007 | Cheongju, South Korea

PATENT

Eunheui Jo, 2019, Electronic device and method for controlling the same, and storage medium, Korean Patent 1020190152132, filed on November 25, 2019.

Eunheui Jo, 2014, Object recognition apparatus and control method thereof, Korean Patent 1020140030537, filed on March 14, 2014, and issued on January 05, 2021.

VOLUNTEER EXPERIENCE

Administrative Volunteer

YMCA Summer English Conversation Circle, Kitchener, ON

Jul 2023 - Aug 2023

Customer Service Voluntary

Mission Thrift Store, Kitchener, ON

May 2023 - Jun 2023