

Beo Back

Founder & Product/Technical Lead

Seattle, WA, United States | [LinkedIn](#)

Computer Science and Data Science undergraduate at UW-Madison (4.0 GPA) working on multimodal ML research at Seoul National University, with prior experience founding an online software education platform that reached about 4,000 paid learners.

EXPERIENCE

Undergraduate Student Researcher

Jun 2026 — Present

Seoul National University, Physical & Interactive Intelligence Lab

Seoul, South Korea

Working under Prof. Youngjae Yu on multimodal learning and model scaling, writing up research reports and presenting findings in lab discussions. Proposed and built RecallMap, an embodied memory framework that uses Bayesian belief updates to reason over target episodes, object locations, and how reliable fallible human memory cues are during object search. Also helped on a survey of about 500 World Action Model papers by building an LLM-assisted evidence-mapping tool that extracts architectures, objectives, datasets, and evaluation protocols with source-level evidence and human checks.

Founder & President

Apr 2026 — Present

Korean Job Search (KOJOBS)

Wisconsin, United States

Founded a UW-Madison career organization and set up a five-person executive team covering program planning, research, external relations, and marketing. Designed a 12-program career framework that includes role exploration, recruiting workshops, graduate mentoring, and speaker sessions. Built a four-campus network of industry professionals, alumni, sponsors, and university partners for joint events and recruiting resources.

Founder & CEO

Apr 2026 — Present

Stealth Startup

Madison, Wisconsin, United States

Founder & Product/Technical Lead

Apr 2026 — Present

STAMPIA

Madison, WI

Designed a multimodal data architecture that aligns GPS and EXIF metadata with photos, videos, audio, text, and emotion inputs, then splits fragmented records into location-grounded travel episodes. Defined four product systems (Rich-Media Log, Personalized Map, Guided Diary, and Auto-Tracking) covering journey reconstruction, memory retrieval, and LLM-assisted narrative generation. Led a five-person team, turned 278 user responses into requirements, and wrote a four-phase engineering roadmap from ingestion through mobile delivery.

Founder & Workshop Leader

Sep 2022 — Apr 2023

Coding for Social Impact (Independent Program)

- Designed and delivered an 8-month web development curriculum in HTML, CSS, and JavaScript for high school students across multiple schools.
- Mentored 200+ students through a four-month team project cycle, guiding them in building beginner-level software applications addressing environmental and educational challenges.
- Supported the development of 10+ functional prototypes and led hands-on workshops emphasizing software development, problem-solving, collaboration, and real-world application.

Founder & Lead Instructor

Jun 2022 — Aug 2026

nhcodingstudio

Remote

Founded and grew an online software education platform to over 5,000 cumulative learners, about 4,000 of them paid, across Udemy and Inflearn. Created and taught project-based courses on React, Next.js, Node.js, Express.js, REST APIs, authentication, database integration, and full-stack development. After four years, transferred full ownership and operations to a business partner so learners and courses kept running without a gap.

Founder & Lead Developer

Mar 2020 — Feb 2023

OSE (Our Sole Earth)

대구, 대한민국

- Led a student-run environmental initiative focused on sustainability, community engagement, and technology-enabled outreach.
- Built and maintained OSE's official web platform and digital campaign tools, reaching 1,000+ community members and increasing volunteer participation by 30%.
- Coordinated sustainability campaigns and community partnerships that contributed to the planting of 1,000+ trees.

EDUCATION

University of Wisconsin-Madison

May 2028

Bachelor of Science in Computer Science and Data Science

GPA: 4.0/4.0

PROJECTS

AI prompt intelligence platform for browser-based LLM interactions, Prompt OS — Local-First Prompt Intelligence Platform

Built a TypeScript Chrome extension, a FastAPI service layer, and SQLite persistence for capturing and organizing browser-based LLM chats. Implemented ingestion, semantic classification, caching, async jobs, telemetry, and structured export. Wrote a provider-agnostic inference layer that works with OpenAI-compatible APIs and local Ollama models.

HTTP Protocol Handling Module (Custom Node.js Server) | Backend Architecture & Event-Driven System

Built a custom HTTP/1.1 server directly on top of raw TCP sockets using Node.js, without relying on Express or other web frameworks. Implemented stream-based request parsing, buffer management, an EventEmitter-driven server lifecycle, an Express-style middleware pipeline, and hash map-based routing. The project provided hands-on experience with HTTP internals, asynchronous I/O, and event-driven backend architecture.

Testing whether narrow fine-tuning causes broad behavioral shifts across model families, Emergent Misalignment Follow-up Study

Built a reproducible ML pipeline covering dataset prep, LoRA SFT, checkpoint management, inference, experiment tracking, behavioral judging, and result aggregation. Fine-tuned all three target models on NVIDIA H200 GPUs using medical, mathematical-error, and insecure-code datasets across several checkpoints and random seeds. Ran matched-condition evaluations measuring hallucination, harmful behavior, sycophancy, and coherence.

SKILLS

NLP · Data Pipelines · Chrome Extension · Local LLMs · SQLite · FastAPI · Communication · Leadership · HTTP/1.1 Protocol · Backend Systems · Middleware Architecture · Design Patterns · TCP/IP Sockets · Stream Processing & Buffers · Event-Driven Systems (EventEmitter) · Wireshark · Concurrency Control · Multithreading · Socket Programming · Network Packet Analysis · Game Server Synchronization · HTTP Protocol · Event-driven Concepts · Back-End Web Development · Data Parsing · Technical Leadership · Mentorship · Project-Based Learning · Teaching · JavaScript · MySQL · Python (Programming Language) · Java · Express.js · Node.js · Next.js · React.js · C++ · Cybersecurity · Internet Protocol Suite (TCP/IP) · Instructional Design · Educational Technology · Curriculum Development · Project Management · Environmental Sustainability · Web Development · C · TypeScript · SQL · PyTorch · Hugging Face Transformers · LoRA/PEFT · LLM Fine-Tuning and Evaluation · RAG · Weights & Biases · Pandas · NumPy · REST APIs · PostgreSQL · Linux · AWS EC2/S3 · Git · Multimodal AI · World Models · Episodic Memory · LLM Safety · NVIDIA H200 GPUs · NVIDIA Isaac Sim