

EDUCATION

The University of British Columbia <i>Master of Engineering in Electrical and Computer Engineering GPA: 92.9/100</i>	Sept 2024 - June 2026 (Expected) <i>Vancouver, BC, Canada</i>
The University of Alberta <i>Bachelor of Science in Computing Science with Honors GPA: 3.86/4.00</i>	Sept 2022 - June 2024 <i>Edmonton, AB, Canada</i>
Beihang University <i>Bachelor of Engineering in Software Engineering GPA: 86.7/100</i>	Sept 2019 - Sept 2022 <i>Beijing, China</i>

EXPERIENCES

Huawei Technologies Co., Ltd <i>AI Software Engineer Intern</i>	July 2025 – Dec 2025 <i>Nanjing, Jiangsu, China</i>
<ul style="list-style-type: none">Developed a high-performance Vector Search Engine by designing an adaptive indexing architecture based on data scale, utilizing bitset-based scalar filtering to achieve over 95% recall and a 45.9% boost in retrieval accuracy in knowledge management and Q&A platform scenario.Implemented a xPU inference parallelism framework, increasing throughput by 6x and maintaining sub-100ms end-to-end latency for million-scale unstructured datasets.Participated in the pre-research on LLM-enhanced Recommendation System of Huawei Music by designing structured prompts to encode user/item attributes and behavioral sequences into semantic descriptions, utilizing multilingual-e5-base for feature extraction.Introduced Multi-head Attention and SENet modules to achieve the alignment between semantic embeddings and traditional ID features, and performed dimensionality reduction to optimize inference performance, achieving a 2.04% increase in online playback duration.	

PROJECTS

Instruction-based Object Detection using Multimodal LLM Course Project	Jan 2025 - April 2025
<ul style="list-style-type: none">Developed an instruction-driven object detection framework based on the Qwen2-VL-2B multimodal model to explore LLM adaptability in structured spatial perception tasks.Fine-tuned Qwen2-VL using LoRA, implementing strategic freezing/unfreezing of the vision encoder, cross-modal aligner, and language decoder to optimize multimodal alignment.Engineered quantity-aware and spatial-understanding instructions with augmented samples (full-enclosure, partial-overlap, non-overlap) to improve target counting and coordinate reasoning capabilities.Conducted ablation studies on LoRA hyperparameters and freezing strategies.	
Beihang Food Delivery Personal Project	Jan 2023 – Apr 2023
<ul style="list-style-type: none">Developed a full-stack campus delivery platform featuring a management backend and a user-facing client for real-time ordering and student-run logistics.Deployed a Redis Sentinel cluster (1 Master, 2 Slaves) for high-availability caching, implementing Bloom Filters via Factory patterns to prevent cache penetration.Optimized concurrency control using Optimistic Locking to prevent inventory overselling and Lua scripts with Redis tokens to ensure order idempotency.	

SKILLS & AWARDS

Languages: Python, Java, HTML, CSS, R

Technologies: Spring Boot, Redis, Numpy, Sklearn, PyTorch

Awards: Beihang Freshman Scholarship (2019), Master of Engineering International Graduate Entrance Scholarship (2025)