

TECHNICAL SKILLS

Languages & Libraries	Python, C/C++, PyTorch, Tensorflow, MLX, scikit-learn, NumPy, Pandas, FastAPI, Flask, SQL, NoSQL
AI/ML Expertise	NLP, LLMs, Neural Networks, Transformers, Model Development, Training, Fine-tuning, Optimization, Evaluation, RAG, Vector Databases, Vector Embeddings, Prompt Engineering, Hyperparameter Tuning
MLOps & Deployment	Git, Docker, MLFlow(CI/CD), Azure, AWS, Hugging Face, Ollama, TinyML, Langchain, LlamaIndex

PROFESSIONAL EXPERIENCE

Data Analyst Intern <i>Geotab</i>	May 2025 — Present Waterloo, ON
• Automated Root Cause Analysis (RCA) with a new Data Quality Agent, reducing manual investigation time by 30%.	
• Increased data trust by deploying real-time anomaly detection and data quality dashboards for continuous data health.	
• Developed a Data Lineage System across pipelines, enhancing governance and speeding up impact analysis.	
Machine Learning Engineer Intern <i>OCAS</i>	Apr 2024 — Apr 2025 Waterloo, ON
• Engineered end-to-end AI advisor from prototype to beta using Llama & Azure OpenAI to enhance college program discovery.	
• Built semantic search pipeline for 10,000+ college programs using BERT embeddings & Azure Vector DB, delivering 3x more relevant matches & reducing search latency by 85%.	
AI/ML Engineer Intern <i>SMART Centre</i>	Sep 2023 — Apr 2024 Waterloo, ON
• Fine-tuned & optimized a dialogue model for microcontroller deployment, achieving natural conversations with minimal latency.	
• Optimized trained SLM for edge deployment using quantization & pruning, reducing inference latency by 80% on microcontroller.	
• Built an efficient inference pipeline for conversational SLM on embedded system, enabling real-time natural dialogue processing.	
Executive Lead <i>Google Developer Groups - On Campus</i>	Nov 2023 — Present Waterloo, ON
• Organized events and strategic initiatives for a community of 1,000+ members, driving significant growth and engagement.	
• Conducted TensorFlow workshops & hands-on projects, enabling 200+ students to understand & build impactful AI applications.	

NOTABLE PROJECTS

[Project Portfolio](#) 

Aqua Pinion Drowning Detection and Prevention Chest Strap - SVM, Sensor Fusion, TinyML, scikit-learn, Python, C/C++, CAD	
• Engineered a sensor-driven wearable using ML to detect drowning with 95% precision and deploy a life-saving inflatable.	
• Developed a custom SVM classifier for microcontroller using sensor fusion, enabling real-time drowning detection & prevention.	
Embeddium Vector Embedding Desktop Application - PyQt5, Transformers, GPU Optimization, Python, Hugging Face	
• Built desktop application to generate vector embeddings from multiple data formats with automated model selection.	
• Engineered multi-format pipeline with GPU acceleration & threading, enabling rapid CSV/JSON to FAISS/HDF5 conversion.	
Typez AI-Driven Typing Improvement Tool - Local models, scikit-learn, PyTorch(Win), MLX(Mac), Python, Pandas, SQLite	
• Built an AI-powered typing analyzer that tracks user patterns & generates personalized exercises targeting specific weaknesses.	
• Implemented a keystroke pattern recognition system using ML, enabling a 30% average improvement in typing proficiency.	

ACTIVITIES & LEADERSHIP

Conestoga Computing Society President & Founder	Sep 2024 — Present
• Founded a 300-member CS community, hosting 10+ events/workshops to enhance skills and foster campus-wide collaboration.	
ConHacks - Hackathon President & Co-Founder	May 2023 — Present
• Initiated, planned, and executed a 130-participant hackathon, managing logistics, marketing, and operations to drive innovation.	
Peer-Assisted Learning Leader & Tutor	Mar 2023 — Present
• Led tutoring sessions on C Programming for 25+ students in DSA, OOP, and core CS topics, improving overall grades by 45%.	
Atal Tinkering Lab Student Lead	Feb 2018 — Aug 2020
• Collaborated with 150+ students on IoT and ML projects, winning 4 awards at national and international science & tech expos.	

EDUCATION

Bachelor of Computer Science (Honours) Conestoga College, Waterloo, ON	Aug 2026 (Expected) GPA: 3.84
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AWARDS AND ACHIEVEMENTS

Mentor: Hack The North 2024, Hawk Hacks, GDSC Hacks | **Judge:** GDSC Hacks, ConHacks | **Winner:** HackThe6ix | CSI Service Award | **Member of Program Advisory Committee:** School of Applied Computer Science and IT | **Guest Speaker:** GDSC, Queens University | Google DevFest Volunteer | Co-op Peer Mentor | **Student Innovator of the Year:** Atal Labs | Gold Medal: FGSI | NIRD RISC: 1st Place |