Jasvin Kaur

925-490-0099 | j225kaur@uwaterloo.ca | Waterloo, ON

 LinkedIn | GitHub | Website

Seeking Summer 2026 Software Engineering / Applied ML Internship

EDUCATION

University of Waterloo	Waterloo, ON
Honours Mathematics, Major in Computational Mathematics & Statistics	*Expected Spring 2027*

SKILLS

Languages: Python, JavaScript, R, C, Bash
Frontend: React, HTML, CSS, TailwindCSS
Backend & APIs: FastAPI, REST APIs, Authentication, Data Pipelines
ML / Data: PyTorch, TensorFlow, scikit-learn, NLP, OCR, Time-Series Analysis
Databases: MySQL, Redis, FAISS, ChromaDB
Infrastructure: Docker, Kubernetes, OpenShift, Azure Cloud, Git

EXPERIENCE

Full-Stack & ML Intern — 09/2025 – 12/2025
Nokia — *Ottawa, ON*

- Designed and deployed an internal **Kubernetes support agent** that diagnosed common K8s failures (pods, deployments, configs), reducing manual debugging and improving deployment reliability across 5G/6G systems.
- Built **LLM-powered automation tools** that analyzed network telemetry, detected anomalies, and generated validated configuration changes, emphasizing safety and human-in-the-loop review.
- Built and maintained **backend services and APIs** supporting internal tooling, including safe context retrieval and automation workflows.

Web Designer Intern — 01/2025 – 04/2025
UW RoboSoccer — *Waterloo, ON*

- Built a **responsive sponsor-facing website** using React and TailwindCSS from Figma designs, improving accessibility and consistency across devices.
- **Refactored UI components** into reusable modules, reducing styling complexity and improving maintainability.

AI Developer Intern — 09/2024 – 12/2024
Innovate4good — *Los Angeles, California*

- Fine-tuned EfficientNet models for **real-time image classification**, achieving 95% accuracy across production use cases.
- Improved engraved-text OCR accuracy by 25–30% through **preprocessing optimization and model evaluation**.
- Deployed **ML inference pipelines** via FastAPI, supporting low-latency mobile integration.

Undergraduate Research Assistant — 10/2023 – 12/2023
University of Waterloo — *Waterloo, ON*

- Conducted **qualitative digital data collection** that helped to produce outputs such as policy briefs.
- Structured, cleaned, and organized datasets for systematic tracking and cross-referencing.

Data Scientist Intern — 05/2023 – 08/2023
Microsoft Azure (WEA) — *Waterloo, ON*

- Developed an **AI chatbot using Microsoft Azure AI and Azure Cloud** to enhance travel accessibility, collaborating on strategic marketing plans to boost adoption.
- **Scraped and aggregated data** from 10+ travel websites using APIs, compiling 100,000+ travel options from accessibility sites, travel advisors, and hotel offerings.

ACADEMIC PROJECTS

Autonomous Deal Intelligence Agent (Market Intelligence System) — 09/2025

- Built a production-style AI system that analyzes real-time news and financial signals to detect high-impact business events with reduced false positives.
- Engineered anomaly signals (volatility spikes, volume shocks, Z-scores) to validate events and reduce false positives.
- Designed layered memory using FAISS and Redis to improve reliability and prevent hallucinated outputs.

ArguMint: AI-Powered Argument Analyzer — 05/2025

- Built an interactive tool that evaluates arguments by retrieving and ranking academic abstracts using TF-IDF and cosine similarity.
- Improved LLM response quality by 70% through structured prompting and dynamic summarization within token limits.

Eligible to work full-time in Canada for Summer 2026; open to relocation to Toronto, Ottawa, or Montréal.