Jeevan Parmar

(778) 389-2213 | j29parma@uwaterloo.ca | LinkedIn | GitHub

Technical Skills

Languages: Java, Python, Kotlin, JavaScript, SQL, R, C#
Frameworks: LangChain, LangGraph, Llama.ccp, OpenAI, Cohere, HuggingFace, Express.js, Redux, JUnit
Libraries: Pytorch, pandas, NumPy, Matplotlib, Selenium, Scikit–learn, Node.js, React.js, OpenCV
Developer Tools: Git, Docker, Azure, AWS, Firebase, Jenkins, MySQL, MongoDB, ChromaDB

Experience

Norwegian University of Science and Technology — Trondheim, Norway
Social Robotics Programmer - Researcher — *Jan 2025 - April 2025*

- Developed a conversational agent using Adaptive, Corrective, and Self RAG patterns, boosting accuracy by 15%
- Integrated a Python agent with custom Kotlin Furhat skills for NorwAI's first agent-based robot-connected backend
- Optimized models with llama.ccp, reducing cloud dependency by 15% and achieving sub-8s responses
- Led the full feature lifecycle from ideation to evaluation, aligning with NorwAI's research innovation goals

Cognite — Austin, Texas
Software Engineer Co-op — *May 2024 — Sept 2024*

- Developed Cognite's first industrial agent for the Atlas AI program, integrating tools for troubleshooting workflows
- Boosted doc-parser's keyword extraction accuracy to 90% using advanced embedding and cross-encoding techniques
- Integrated Gemini model into Cognite's doc-parser, enabling GCP users access and enhancing overall functionality
- Implemented the Tail Generation Pattern to generate summaries, optimizing long-term memory recursively

XCare — Toronto, Ontario
AI Engineer — *Oct 2023 — Oct 2024*

- Fine-tuned Dense CNNs and Vision Transformers for X-ray diagnosis, achieving 90% accuracy
- Developed a RAPTOR-AI pipeline, increasing retrieval accuracy to 95%, graded by medical professionals
- Architected a RAG-AI pipeline delivering personalized rehabilitation info with references from medical sources
- Wrote, presented, and published a paper on the tool at the Canadian Undergraduate Conference on AI

Genellipse Inc. — Toronto, Ontario
Software Engineer Co-op — *Sept 2023 — Dec 2023*

- Optimized MongoDB architecture: enabling vector similarity search, enhancing data efficiency across 13 collections
- Boosted data processing accuracy by 75% with Adobe and RAG, while decreasing runtime to sub-3 minutes
- Implemented MNN and RNN Pytorch models, leading to a R^2 of 0.85 and 0.95, respectively

TD Bank — Technology — Toronto, Ontario
Automation Quality Engineer Co-op — *Jan 2023 — April 2023*

- Introduced Recursive and Object-Oriented testing methods using Java Selenium, reducing runtime by 58%
- Implemented 30+ end-to-end test cases on TD's DEFI Environment, successfully closing a 2+ year project
- Deployed automation scripts on Jenkins leading to 20+ bugs found within TD's DEFI Environment

Projects

Search Engine | *Python* — Sept 2024 — Dec 2024
Audio Transcriber | *Python, HuggingFace, OpenAI* — Oct 2024 — Oct 2024
Nodal Price Forecast Algorithm | *MongoDB, Python, Scikit–learn, Pytorch* — Jan 2024 — April 2024
Meal Stream | *MySQL, Firebase, JavaScript, Node.js, React.js, Redux, Express.js* — Jan 2024 — April 2024
IMDB Clone | *MySQL, JavaScript, Node.js, React.js, Express.js, REST APIs* — June 2023 — July 2023
NBA Fantasy Projection Project | *MySQL, Python, HTML/CSS, Scikit–learn* — June 2022 — Aug 2022

Education

University of Waterloo — Waterloo, Ontario
Honours Co-op BASc Management Engineering, Artificial Intelligence Option — *Sept 2021 — Present*