

RISHAB BAHAL

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Summary: I am a AI Engineer / Software developer with 5 years of experience. I have a solid background in Machine Learning and AI backed by my Master's degree. Currently specializing in Generative AI field, including Fine tuning LLMs, creating multi agent and advanced RAG workflows. Also, Community expert at *AI tinkerers*. Seeking full time, permanent opportunities.

SKILL SET

AI: LangChain, LangGraph, LlamaIndex, Advanced RAG, Multi Agent workflow, LLM Fine tuning, HuggingFace, Ollama, Groq, whisper

Databases/Vector Databases: PostgreSQL, MongoDB, Pinecone, FAISS, ChromaDB.

Machine Learning: Scikit-learn, TensorFlow, PyTorch, Pandas, NumPy, Matplotlib, Seaborn,

DevOps: Docker, Git, GitHub, CI/CD, AWS

Back End: NodeJS, Flask, Fast API, Django.

Frontend: React, Next.js, Typescript, Angular

EDUCATION

Masters of Computer Science (Applied AI) (MSc)

Jan 2020 - Aug 2021

Bishop's University, Sherbrooke, Quebec, Canada

Bachelors of Technology (B.Tech)

Aug 2014 - Jun 2018

Bharati Vidyapeeth College of Engineering (GGSIU), New Delhi, India

RELEVANT WORK EXPERIENCE

Nine keys

Remote - Self employed

Project - Radiology Reporting

Mar 2023 - Jan 2025

Software Developer/ AI engineer (Full time- contract)

- Working on a Radiology Transcription software. HIPAA compliant.
- Responsible for AI integration in Full stack application, including API development and deployments.
- Fine tuned open AI's whisper model with radiology specific terminology which improved WER by 37%.
- Implemented multi agent work flow and advanced RAG to tailor the report creation based on Radiologist's individual needs and to improve report analysis.
- Fine tuned *LLMs* with task specific data and proprietary data.

Maxen Technologies

Montreal, Quebec

Software developer

Jan 2022 - Feb 2023

- Leveraged *React.js Typescript* and *Django* to implemented new features in Building Management System such as scheduling work orders, creating relation between checklist and assets with work order
- Created role based authentication for contractors, employees and managers.
- Optimized frontend for better load times (approx improvement by 25%).
- Implemented CI/CD pipelines and Deployments on AWS.

ReInvestWealth Inc.

Montreal, Quebec

Software developer

Mar 2021 - Jan 2022

- Involved in automating book keeping using Plaid API, *React typescript* & *REST API* with *NestJS (node.js framework)*
- Curated dashboard for visualizing financial data of clients and managing their transactions manually.
- Automated retrieval of banking transactions through web hooks.

TATA Consultancy Services

New Delhi and Trivandrum, India

Software developer

Nov 2018 - Dec 2019

- Developed and resolved bugs for pharmaceutical client Vertex.
- Worked in agile environment involving *Angular* code but mainly focused on API development with *Node.js*.