Chirag Malik

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EDUCATION

Memorial University	St. John's, NL
Master of Artificial Intelligence	*Sep. 2024 – Dec. 2025*
Meerut Institute of Engineering and Technology	Meerut, India
Bachelor of Technology in Computer Science and Information Technology	*Aug. 2019 – Jul. 2023*

EXPERIENCE

AI and Full Stack Developer — Sep 2025 – Dec 2025
Mxpert — *St. John's, NL*

- Built an automated testing and evaluation pipeline for conversational AI using Python, Flask, OpenAI APIs, and Vapi Chat API, validating response accuracy.
- Designed a multi-method evaluation framework combining cosine similarity, LLM-based scoring, and domain-specific checklists to assess 8+ quality metrics and improve conversational reliability.
- Enhanced React, TypeScript, and backend API workflows to reduce internal tool friction and ensure stable frontend–backend data flow.

AI Solution Intern — May 2025 – Aug. 2025
Genesis AI Garage — *St. John's, NL*

- Built a full-stack conversational AI web app using React, FastAPI, and Llama 3, delivering accurate, context-aware responses over 150+ documents with a focus on scalability within an Agile/Scrum-based development process.
- Implemented backend services with FastAPI, PostgreSQL, Firebase Auth, REST APIs, and Qdrant semantic search, achieving sub-500ms query latency and secure session management.
- Developed a responsive React and Tailwind frontend with real-time chat, authentication, state management, and structured testing to ensure reliable system performance.

RECENT PROJECTS

[HeartHush - AI Mental Wellness Platform](#) | *RAG, Fine-Tuning, FastAPI, Qdrant, PostgreSQL, OpenAI APIs*

- Built a full-stack AI mental wellness platform using React, FastAPI, PostgreSQL, and Qdrant, supporting long-term, empathetic conversations with persistent memory across CBT and anxiety topics.
- Implemented RAG pipelines grounded in psychology literature, integrating fine-tuned LLMs and emotion-detection models to deliver context-aware guidance and cognitive reframing.
- Designed user-centric interfaces focusing on accessibility and user engagement, aligning with modern HealthTech best practices for digital therapeutic tools.

[Servira - Service Management Platform](#) | *Next.js, React, TypeScript, FastAPI, PostgreSQL, Tailwind, REST*

- Built a full-stack platform for service professionals using Next.js (server-side Node.js), React, and TypeScript, streamlining scheduling, invoicing, and payments through automated workflows.
- Implemented secure backend services with PostgreSQL, Supabase, REST APIs, and JWT authentication to support CRM functionality and self-service client portals.
- Developed a responsive, real-time dashboard with analytics, calendar scheduling, and modular component architecture to deliver actionable insights and efficient end-to-end operations.

TECHNICAL SKILLS

Core Programming: Python (OOP, DSA, scripting), TypeScript
Frontend: HTML/CSS, React.js, Tailwind CSS, Next.js, Redux Toolkit, Streamlit (AI prototyping)
Backend: FastAPI, Express.js, Node.js, Flask, REST APIs
AI/ML: NumPy, Pandas, Scikit-learn, TensorFlow, PyTorch, OpenCV, Matplotlib
GenAI: LLMs (prompt engineering, RAG, fine-tuning, LangChain, LlamaIndex, Hugging Face Transformers, vector databases (FAISS, Pinecone, Chroma, Qdrant)
Data & Databases: PostgreSQL, MySQL, MongoDB (basics)
Cloud/DevOps: GCP/AWS (basics), Docker, MLflow, GitHub Actions (CI/CD)
Developer Tools: Figma (UI/UX), Git/GitHub, Postman, Agile/SCRUM, Jira