

# TSERING WANGCHUK SHERPA

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## EDUCATION

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### Seneca Polytechnic

*Artificial Intelligence*

*Sep 2025 — Apr 2026*

### Coventry University

*Bsc. Computer Science*

*Sep 2019 — Jul 2022*

## EXPERIENCE

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### Junior Web Developer

*TechLekh Services*

*Jun 2021 — Sep 2022*

*Kathmandu, Nepal*

- Developed and launched responsive websites using React and Node.js, increasing site traffic significantly and improving user satisfaction by optimizing UI/UX and front-end/back-end performance.
- Successfully integrated third-party APIs and libraries to enhance website functionalities, such as payment gateways and interactive maps.
- Actively collaborated with product designers to bring their high-fidelity prototype to life, delivering implementations that matched the original design vision.
- Participated in code reviews and provided constructive feedback to team members, fostering a collaborative and knowledge-sharing environment.

## PROJECTS

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### AI onboarding RAG application | Python, Streamlit, Langchain, ChromaDB

- Developed a Retrieval-Augmented Generation (RAG) system using LangChain and ChromaDB to automate document-based onboarding, enabling semantic search and context-aware responses from localized knowledge bases.
- Built a responsive full-stack AI prototype with Streamlit, providing an interactive user interface for querying vector databases and visualizing model outputs in real-time.
- Engineered modular prompt templates and system prompts to optimize LLM response quality, ensuring accurate information retrieval while minimizing hallucinations in production query scenarios

### AI resume analyzer | Python, Streamlit, OpenAI

- Engineered an AI-powered Resume Analyzer using Python and LLMs, automating the extraction of key technical skills and experience from candidate documents to perform automated compatibility scoring.
- Developed an interactive web prototype with Streamlit, enabling users to upload resumes and receive real-time, data-driven feedback on alignment with specific job requirements.
- Designed structured prompt templates to ensure consistent and objective evaluation of candidate qualifications, minimizing bias and improving the precision of automated skill-gap analysis.

### Create Manga AI | Python, FastAPI, ReactJs, MaterialUI, Langchain, OpenAI

- Developed a full-stack generative AI platform using FastAPI and ReactJs, allowing users to build branching manga stories with AI-generated content
- Engineered a RESTful API architecture to orchestrate AI manga generation workflows, implementing asynchronous processing and state management for handling multiple concurrent manga creation requests

## SKILLS

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**Languages :** Python, Javascript, HTML, CSS, SQL

**Frameworks:** Express JS, Streamlit, React.js, FastAPI, Node.js, Material UI

**Developer Tools:** VS Code, Git, Docker, Pycharm, AWS, GCP

**AI & GenAI:** RAG Architectures, LangChain, ChromaDB, Vector Databases, Prompt Engineering, Semantic Search., LLM