

Sakib Mansuri

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EDUCATION

Bachelor of Engineering: Software Engineering

Seneca Polytechnic

January 2023 - September 2026

North York, ON

Relevant Coursework: Data Structures & Algorithms, Intro to Artificial Intelligence, Data Mining

EXPERIENCE

Systems Development Engineer Intern

Kubetools Technologies Inc.

January 2026 - April 2026

- Built a multilingual RAG system from scratch, architecting the ingestion, chunking, embedding, and vector storage workflow for transcript search and retrieval.
- Developed Python data collection and preprocessing pipelines from multiple sources (YouTube metadata, transcript files, structured datasets), normalizing content and reducing noise to improve downstream search quality.
- Built a full-stack solution with FastAPI backend and TypeScript/React frontend interface for detecting, reviewing, and updating non-English words at scale across transcript records with normalized database-backed operations.
- Conducted end-to-end UI testing for KubeSling platform and load benchmarking with Locust, documented performance thresholds, and prepared operational guidelines supporting 1000+ concurrent users.

Frontend & UI/UX Intern

Inspired Tech & Business Solutions

May 2025 - August 2025

- Conducted user research and usability testing to shape design decisions and improve the product experience.
- Created wireframes, interactive prototypes, and high-fidelity Figma designs while maintaining brand consistency.
- Partnered with frontend and backend teams to deliver responsive interfaces, improved product usability by ~30% through iterative testing and accessibility optimization across devices.
- Presented design concepts to stakeholders, iterated on feedback, and developed production-ready landing pages and features using React, Tailwind CSS, Bootstrap, and JavaScript.

PROJECTS

WattIf 🌀 | *React.js, FastAPI, Python, Multi-agent Systems*

- Built an agent-based digital twin of Toronto for demand-informed renewable energy siting with a FastAPI simulation engine, optimizer, and planner connected to a React-based spatial map UI.
- Coordinated a multi-agent workflow to support interactive analysis of siting scenarios and planning decisions.

FoodVision-AI 🌀 | *PyTorch, Flask, Python, Computer Vision*

- Fine-tuned a computer vision model to classify food images on a custom dataset using PyTorch and Flask.
- Evaluated model precision with confusion matrices and tracked training history to improve convergence and prediction accuracy on a custom dataset.

RELEVANT SKILLS

Languages: Python, JavaScript, TypeScript, SQL, C/C++

Frontend: React, Tailwind CSS, Bootstrap, HTML5, CSS3

Backend & APIs: FastAPI, Django, REST API, Node.js, Express.js

Data & ML: PyTorch, scikit-learn, NumPy, Pandas, LangChain, LangGraph, LangSmith, FAISS, Pinecone

Databases: PostgreSQL, MySQL, MongoDB, Firebase

DevOps & Tools: Git/GitHub, Docker, GitHub Actions, CI/CD, AWS, Azure, Linux, Figma, Postman

EXTRA CURRICULARS AND ACHIEVEMENTS

- NASA Space Apps Challenge 2025 and Seneca Hackathon 2023.
- Certification: Ultimate RAG Bootcamp Using LangChain, LangGraph, and LangSmith - KRISHAI Technologies Private Limited, January 2026.
- Certification: Docker Foundations Professional Certificate - Docker, Inc., December 2025.