

# Tridib Roy Chowdhury



<https://tridib2510.vercel.app/>



[tridib-roy-chowdhury-665a9529a/](https://www.linkedin.com/in/tridib-roy-chowdhury-665a9529a/)



<https://github.com/Tridib2510/>

## TECHNICAL SKILLS

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**Languages :** Java, Python, JavaScript, Typescript , SQL.

**Technologies :** ReactJs, Node.js, express js, Nextjs , FastAPI , Flask , Streamlit , MongoDB, MySQL, Machine Learning  
Langchain, Hugging Face , RAG Pipelines , LLM Evaluation , Vector Databases

## WORK EXPERIENCE

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### PHATON | Backend Developer

October 2025 – Present

- Worked with a team to build, maintain and deploy API
- Tech : Node.js , express js , PostGresql , Typescript

## PROJECTS

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### 1. KickIts – Fullstack Sports Event Platform:

- Built a scalable MERN platform for hosting and managing sports events.
- Integrated real-time chat, user authentication, event analytics, and notifications
- Improved UI/UX using Tailwind CSS and optimized backend APIs.
- Tech: React, Node.js, Express, MongoDB, Tailwind CSS

<https://kick-it-version3-0.vercel.app/>

### 2. GenAI Search — Intelligent Semantic Search Engine:

- Designed and built a GenAI-powered research search engine that leverages advanced prompt engineering to retrieve, synthesize, and generate answers from multiple authoritative sources including Wikipedia, live internet data, and arXiv research papers.
- Enabled seamless user interaction via a web interface, allowing researchers and developers to explore complex topics using plain English queries..
- Automated alert generation and security logs.
- Tech: Python, LLMs, Prompt Engineering, Semantic Search, Wikipedia API, arXiv API, Web Search Tools, UV

<https://search-engine-genai-app.onrender.com>

### 3. Network Security Project:

- Developed an ML-powered network threat monitoring and detection system.
- Implemented API endpoints using FastAPI and deployed ML models for classification.
- Automated alert generation and security logs.
- Tech: Python, FastAPI, Scikit-learn,, Machine Learning, MLOPS

<https://github.com/Tridib2510/networksecurity>

### 4. SummaryIO – AI-Powered Document and Video Summarizer:

- Developed an intelligent summarization tool leveraging Langchain and advanced prompt engineering to generate concise and contextually accurate summaries from diverse content sources including YouTube videos, web articles, and PDF documents
- Implemented dynamic chain-of-thought prompting, allowing multi-step summarization with improved coherence and detail retention.
- Tech : Python, LangChain, Groq, Streamlit, YouTubeTranscript API, Prompt Engineering

<https://summaryio.streamlit.app/>

## Certificates

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- Machine Learning-<https://www.udemy.com/certificate/UC-a367b38d-a2b6-491f-9838-12cea59205ef/>