

# Nikhil Sharma

North York, Toronto, Ontario

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## EDUCATION

**Lassonde School of Engineering, York University**

*Bachelor of Science: Computer Science*

**London School of Economics – University of London (SIM Global Education)**

*Bachelor of Science: Economics and Management*

*Toronto, Canada*

Jan 2021 – Present

*Singapore*

September 2019 – August 2020

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## SKILLS

**Programming Languages:** Python, TypeScript, JavaScript, Java, HTML, CSS/SCSS

**Libraries and Frameworks:** ReactJS, NextJS, FastAPI, Langchain, ExpressJS, Tailwind CSS, Postman API

**Database:** PostgreSQL, TiDB Serverless (MySQL), SQLAlchemy, PlanetScale, Prisma, FAISS, Chroma

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## EXPERIENCE

**Lassonde Blockchain Association – York University**

*Software Engineer*

*Toronto, ON*

Feb 2023 – Present

- Analyzing the web 3.0 market by conducting research on DeFi and NFT using raw blockchain data from Ethereum, Opensea, Uniswap, etc. by creating **PostgreSQL** backed queries and dashboard on Dune ([link](#)).
- Collaborated on **LBA – Blog** ([link](#)) project at Lassonde Blockchain Association, utilizing **Sanity CMS** and implementing, **TypeScript**, **NextJS** and **Tailwind CSS** for front-end development. Hosted the platform on **Vercel** for seamless deployment.
- Coordinated with the Social Media team in creating social media campaigns over Discord and Instagram.

**TheGuides** ([Devpost](#) | [Website](#))

*Co-founder*

July 2023 – Present

**Objective:** Developed personalized AI chatbot with a vision on helping students and professionals with studying and asking questions.

- Utilized **OpenAI's API** to develop the chatbot, enabling it to receive user input and provide responses.
  - Developed front-end components on **NextJS** with **Typescript**, implementing **Tailwind CSS** for styling.
  - Implemented **Langchain** to chain prompts and utilized recently introduced **Function Calling** feature of GPT.
  - Used **FastAPI** to build a lightweight and fast server that runs the model, leveraging **SQLAlchemy** to develop database. Hosted on cloud using **TiDB Serverless**.
  - Incorporated **FAISS** along with OpenAI Vector Embeddings for text file vectorization.
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## PROJECTS

**Marketing Discord Bot** ([Github](#))

*Discord API, Python, Langchain, Chroma, OpenAI API, Stable Diffusion API*

**Objective:** Developed an AI Discord Bot with the purpose of generating posts, captions, and SEO optimized content for various social media platforms.

- Leveraged **Langchain** for prompt chaining and integrated it with **Discord API** to create a functional discord bot.
- Currently integrating Stability AI's **Stable Diffusion API** to generate posters for social media posts using SDXL.
- Utilized **Chroma** in combination with OpenAI Embeddings for text file vectorization.

**Similarity API** ([Github](#) | [Website](#))

*NextJS, Typescript, TailwindCSS, Prisma, PlanetScale, GoogleAuth*

**Objective:** Developed a full-stack API service website using **NextJS**, while seamless integration between frontend and backend.

- Implemented rate-limited and protected API routes, along with a authentication system and an API key system for user key management.
- Designed a visually appealing website with light/dark mode using **TypeScript**, **TailwindCSS**, and optimized performance through **PlanetScale** database.

**GPT-Restaurant-Bot** ([Github](#))

*FastAPI, SQLAlchemy, SQLite, Python, Langchain, FAISS, OpenAI API*

**Objective:** Developed the AI bot that powered by **OpenAI's GPT-3.5-Turbo** that can handle orders and reviews from the customer.

- Utilized **Langchain** to chain prompts and leveraged the recently introduced Function Calling feature of GPT.
  - Used **FastAPI** to build a light and fast server to run the model while utilizing **SQLAlchemy** to develop local database using **SQLite**.
  - Employed **FAISS** along with OpenAI Embeddings for text file vectorization.
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## VOLUNTEER

**WISER WORLD**

*Co-founder and Editor*

*New Delhi, India*

Apr 2020 – Aug 2021

- Co-founder of a research articles-based website using WordPress.
- Conducted virtual interviews with over 600 candidates for internship positions and provided mentorship to over 50 interns in content writing roles.
- Proofread and edited article submissions, ensuring high-quality content.
- Implemented SEO optimization strategies for article submissions.
- Hosted webinars featuring delegates from distinct institutions from Singapore, Sweden, and the United Kingdom.