

Jimit Rawal

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EDUCATION

Toronto Metropolitan University

Toronto, ON

Honors Bachelor of Science in Computer Science (Co-op), Minor in Cybersecurity

Sep. 2023 – May 2028

Relevant Courses: Python Fundamentals & Algorithm Design, Java & Object Oriented Design, Computer Architecture, Linear Algebra, Probability & Statistics, Data Structures & Algorithm, Intro to Unix, C, C++, Intro to Software Engineering, Operating Systems, Discrete Structures, Comparative Programming Languages

EXPERIENCE

AI Developer

May 2024 – Aug 2024

Project Human City

Toronto, ON

- Developed and integrated a chatbot using Large Language Models (**LLM**) and Retrieval-Augmented Generation (**RAG**), leveraging **OpenAI** to improve user interaction and information retrieval accuracy.
- Implemented data ingestion pipelines with **LlamaIndex** to parse, embed, and store unstructured text data in a vector database, **Pinecone**, significantly enhancing data retrieval speed by **19%**.
- Optimized **vector storage** and retrieval processes to achieve efficient **chatbot** response time by **27%** and enhanced accuracy in relevancy.

Lead Front-End Developer

Feb. 2024 – May 2024

Canadian Contractor Services

Remote

- Designed and implemented the official **website** using **HTML**, **CSS**, **Javascript**, **Bootstrap**, and **SASS** framework, leading to a **40%** reduction in page load time and an overall smoother user experience.
- Achieved **100% cross-browser compatibility and responsiveness** and ensured full mobile optimization, resulting in a **36%** improvement in mobile user engagement and a **25%** decrease in website bounce rates.
- Enhanced website performance, **SEO**, and accessibility by implementing responsive **UI/UX** best practices, resulting in a **27.3%** improvement in mobile performance and a Lighthouse score of **90+** in these categories.

PROJECTS

Weather Now | Javascript, API, HTML, CSS

- Integrated an **API-driven Javascript** web application allowing users to search for current weather conditions in any city, including temperature, humidity, and wind speed.
- Leveraged a browser geolocation feature which automatically fetches and displays live weather data for the user's current location in **0.3s**.
- Designed a dynamic and **responsive** interface using **HTML**, **CSS** that adjusts weather visuals in real-time based on current conditions and time of day, optimized for both **desktop** and **mobile** devices.

Uber Application Backend System | Java, OOP

- Developed a Uber-like transit back-end application in **Java** using **OOP** principles, facilitating seamless ride sharing and delivery services.
- Designed a vigorous system for managing service requests, resulting in efficient pick-up and drop-off tasks.
- Enabled a mutual validation functionality where users and drivers can confirm ride and food delivery requests.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, Bash, C, C++, Rust, Haskell, Elixir, HTML, CSS

Libraries/Frameworks: React, Node.js, Bootstrap, Numpy

Developer Tools: GitHub, Linux, Visual Studio Code, LLM, RAG, OpenAI, Postman, Docker, Jupyter Notebook

In Progress: SQL, PostgreSQL, Express.js, Flask, FastAPI