

# Jimit Rawal

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## TECHNICAL SKILLS

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

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

**Developer Tools:** GitHub, Git, Linux, VS Code, LLM, RAG, Pinecone, Postman, Docker, Jupyter Notebook, AWS

**In Progress:** SQL, PostgreSQL, Flask, FastAPI

## 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 fine-tuned a **RAG-based chatbot** using **LlamaParse** for data parsing, **OpenAI's embedding model** for vector creation, and **Pinecone Vector-DB** for fast data retrieval, improving query accuracy by **19%**.
- Designed and optimized **data ingestion pipelines** with **LlamaIndex** to convert unstructured documents into vector embeddings, enhancing chatbot response speed by **27%**.
- Automated data upsertion and query processing** on **AWS EC2**, integrating new data from **AWS S3** in real-time, reducing manual intervention by **40%**.

### 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 complete **mobile** optimization, resulting in a **36%** improvement in mobile user engagement and 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, Postman, HTML, CSS*

[GitHub](#)

- Integrated a dynamic and **responsive API-driven Javascript** web app allowing users to search for current weather conditions in any city, including temperature, humidity, and wind speed.
- Leveraged a browser geolocation feature which displays live weather data for the user's current location in a fetch time of **0.3s**.
- Utilized **Postman** to test and monitor responses from OpenWeather API and Sunrise-Sunset API, verifying response times, status codes, and data accuracy.

### Uber Application Backend System | *Java, OOP, Linux*

[GitHub](#)

- Developed a Uber-like transit back-end application in **Java** using **OOP** principles, facilitating seamless ride sharing and delivery services, deployed and managed on **Linux** servers for optimal performance and scalability
- Created 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.