

# Ram Chopra

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github.com/ramchopra1

## Summary

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Resourceful and adaptable AI and computing student with experience in both technical IT support and customer-facing operations. Hands-on with Generative AI, LLMs, RAG pipelines and backend development (Python, FastAPI, LangChain, FAISS), contributing to agile product development. Complemented by experience as a Store Associate at Shell Gas (inventory management, cash handling, system reporting, customer service). Known for problem solving, teamwork, and working effectively in technical and front-line environments.

## Education

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**Durham College**, BSc(Hons) in AI

September 2024 – April 2028

- GPA: 4.2/5.0 (Honour Roll)
- **Coursework:** Web Development (HTML, CSS, JavaScript, React), Database Systems (SQL/No-SQL), Software Engineering, Operating Systems, Networking, Data Structures & Algorithms, Machine Learning, AI Ethics

## Experience

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**AI Intern**, Mirakalous Technology LTD. , Oshawa, ON

May 2025 – Aug 2025

- Conducted R&D in Generative AI, including prompt engineering and LLM fine-tuning.
- Designed and maintained RAG (Retrieval-Augmented Generation) pipelines using LangChain and FAISS.
- Collaborated with senior engineers to prototype and deploy LLM-based microservices within Agile sprints.
- Integrated FastAPI backends and external APIs into product workflows, enhancing efficiency.
- Used Cursor IDE and GitHub Copilot Enterprise (GHCP) for AI-assisted development and pair programming

**Store Associate**, Shell, Oshawa, ON

Oct 2024 – Present

- **Operations:** Managed inventory, POS transactions, and daily cash reconciliation.
- **Service & Reporting:** Provided customer support and generated sales/inventory reports.

## Projects

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**Diabetes-Meal-Plan-Generator**

[git.com/diabetes-meal.git](https://git.com/diabetes-meal.git)

- **AI-powered meal planning:** The project uses machine-learning algorithms and nutritional data to generate personalised meal plans for diabetic patients, ensuring balanced nutrition and better blood-sugar control
- **Healthcare-focused prototype:** Demonstrates how AI can integrate dietary guidelines with individual user inputs to provide weekly meal plans tailored to diabetic needs, showcasing practical Python/ML skills in a healthcare context.
- Tools Used: Python , Typescript , C++ , HTML.

**Portfolio**

[github.com/port.com](https://github.com/port.com)

- **Dark-themed portfolio:** Built with Next.js and Tailwind CSS, it opens with a hero section introducing you as an AI & computing student focused on AI solutions and user-friendly apps
- **Complete showcase:** Includes key stats, an experience timeline, projects, education, tech stacks and a contact form; the footer notes that it's built with Next.js and Tailwind
- Tools Used: NEXT.js , HTML , Java, Tailwind CSS.

## Skills

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**Technical :** HTML , C++ , JS, CSS, Python, FastAPI, LangChain, FAISS, LLMs, RAG, Git/GitHub, API integration .

**Operational Inventory :** management, POS operations, Cash handling & reconciliation, System reporting, Customer service .