

Rhythm Chawla

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EDUCATION

University Of Waterloo

Waterloo, ON

Honours Bachelors of Computer Science

April 2028

- Recipient of the **President's Scholarship of Distinction**, awarded for exceptional academic achievement.
- Specialization in **Artificial Intelligence, Human-Computer Interaction** and a minor in Entrepreneurship.
- Coursework: Object Oriented Programming(OOP), Elementary Algorithm Design and Data Abstraction, Tools and Techniques for Software Development, Computer Organization and design, Statistics, Linear Algebra

EXPERIENCE

Associate Conversation Design Intern

August 2025

Cresta (Series D AI Startup, Remote) | Python, LLMs, Jupyter, Dialogflow CX, Google Apps Script *CA, Remote*

- Developed an LLM-powered redaction auditor that reduced manual transcript QA time by **60%**, automatically flagging sensitive or policy-violating content across thousands of weekly interactions.
- Automated annotation tracking and data labeling workflows using **Google Apps Script**, saving the design team **10+ hours/week** across 3+ enterprise projects by eliminating repetitive ops work.
- Performed QA and iterative tuning on Cresta's **Opera** and **Director** platforms for 10 client deployments, improving intent coverage and bot response accuracy by **30%**.

Software Engineer

August 2024

G12Uni, Enterprise COOP | ReactJS, Python, Flutter, Dart, Docker, GCP

Waterloo, ON

- Co-founded a global platform connecting over **1,500** university students worldwide, fostering collaboration, mentorship, and innovation through networking and resource-sharing opportunities.
- Redesigned the G12 website using Vite ReactJS, improving user engagement through **Tailwind CSS following SaaS principles**. Added multiple APIs for Google Meet, video calls, maps, avatars, chatting systems, chatbots
- Trained **NLP** models on diverse datasets to enable features like Reddit and YouTube scanning, enhancing user engagement. Deployed using Docker.

PROJECTS

StrumSpace, SpurHacks (Hackathon) | *YOLOv8, OpenCV, Flask, React, Vite, 3JS, librosa*

June 2025

- * Created an AI AR guitar tutor with **YOLOv8** fret detection, **ThreeJS** chord overlays, and real-time pitch verification for strumming accuracy.

Rhythm, Hack the Hill (Hackathon), Ottawa | *Python, Flask, ReactJS*

September 2024

- * Built an AI voice coach with **Wav2Vec2** and **SEP-28K** for real-time stuttering detection and speech feedback, with an interactive **ReactJS** UI.

Watopoly, Object-Oriented Programming Project | *C++, OOP Principles, Git, MakeFile*

March 2025

- * Designed and developed a robust Monopoly-inspired game, **Watopoly**, applying core OOP principles including inheritance, polymorphism, encapsulation, and abstraction.

NeuroBridge, Mental Health AI Tool | *LLM Finetuning, React, Supabase, Python*

July 2025

- * Built **NeuroBridge**, an LLM-powered tool to train users on compassionate communication with individuals facing **BPD escalation**, using **simulated dialogues**, emotion detection, and AI-driven feedback.

Bhasha, Language Learning Startup | *NextJS, Flutter, Firebase, Supabase*

June 2025

- * Led development for both the web app (NextJS + Supabase) and cross-platform mobile app (Flutter + Firebase) to teach Indian languages, implementing full-stack authentication and deployment.

PawPal, GeeseHacks (Hackathon) | *React, TensorFlow.js, Firebase*

January 2025

- * Created an AI-based pet care platform to detect health symptoms, recommend diets, and connect pet owners to local sitters using **TensorFlow.js** and Firebase backend.

SUMMARY

Languages: Python, JavaScript, TypeScript, C++, Dart, Java, SQL, HTML, CSS

AI & ML Frameworks: TensorFlow, Wav2Vec2, YOLOv8, Librosa, Pandas, NumPy, Matplotlib

Technologies & Frameworks: ReactJS, Next.js, Flutter, Node.js, Express, Firebase, Supabase, Docker, GCP

Tools: Git, GitHub, Bash, Docker, Google Cloud Platform (GCP), Linux

Machine Learning Models: Llama2, DQN, A3C, Reinforcement Learning, Computer Vision