

RUDDRA KANTARIA

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EDUCATION

University of Waterloo

Bachelor of Computer Science: Data Structures, Algorithms, OOP, Operating Systems

Waterloo, ON

Sep. 2024 - Apr. 2028

TECHNICAL SKILLS

Languages: Java, Python, Ruby, JavaScript, TypeScript, C, C++, C#, HTML/CSS, SQL, Bash

Technologies: Git, AWS, GCP, Azure, MCP Servers, Docker, Kubernetes, Redis, Supabase, MongoDB

Frameworks & Libraries: React, Node.js, Next.js, Express.js, Tailwind, Flask, TensorFlow, OpenCV

EXPERIENCE

Atelier

Toronto, ON

Co-Founder (Founding Engineer) | AWS, Node.js, Redis, LangChain

Dec. 2025 - Present

- Co-founded an **AI-driven product analytics start-up** backed by **Telora with \$60,000 in funding** to help companies turn website analytics into automated feature improvements
- Designed an end-to-end analytics ingestion pipeline that integrates data from **any analytics provider** into an LLM
- Developed an AI-driven feature generation engine using LangChain to **analyze website structure** and automatically produce **deployable UI/UX code changes**, eliminating the need for manual iterations

Shopify

Toronto, ON

Software Engineering Intern | Typescript, Ruby on Rails, SQL, GraphQL

May. 2026 - Aug. 2026

- Orchestrated a **100% uptime data migration** from legacy APIs to new service endpoints while ensuring full **backwards compatibility** through shadow writes, backfilling over **5B rows**, and staged rollouts
- Designed and implemented scalable **data models and GraphQL APIs** in Ruby on Rails, powering a fully extensible cash management experience for **2M+ active retailers**
- Engineered full-stack features for Shopify Point of Sale (POS) in React Native and Typescript, resolving critical race conditions in async workflows to **reduce failure rate by 40%**

BlueDot

Toronto, ON

Software Engineer (Intern to Part-time) | Python, Azure, Selenium, BeautifulSoup, Docker

May. 2025 - Nov. 2025

- Architected a new **ETL pipeline** with **Python** and **Azure** to process data, reducing ingestion time by **56%**
- Cut manual data work by 37%** for Epidemiologists through this pipeline, saving the company **\$150,000** per year
- Built transformations using Azure, increasing data throughput by **50 GB** per day through parallel task execution
- Scraped unstructured data** using **Selenium** and **BeautifulSoup**, improving coverage of external sources by **47%**
- Optimized** data storage and retrieval in Azure through **caching and indexing**, cutting access latency by **71%**
- Automated **deployments** with **Docker** and Azure DevOps CI/CD pipelines, boosting release frequency by **22%**

Quetzal

Toronto, ON

Co-Founder | Qiskit, React.js, Next.js, MySQL, GPT-4o

Aug. 2023 - Aug. 2025

- Co-founded a quantum education start-up that taught over **2,500 students** from more than **25 countries**
- Established **partnerships** with the **University of Waterloo** and **The Perimeter Institute**
- Developed a responsive platform with **Next.js**, leveraging **GPT-4o** to generate recommendations for courses and Google Vision to enable image-based searches, **increasing users by 27%**

ConneXU

Toronto, ON

Software Engineering Intern | AWS, GCP, React.js, TypeScript, FastAPI, Supabase

May. 2024 - Sep. 2024

- Expanded user base by **500+** and developed the **SaaS AI platform** while deploying on **AWS ECS** and **Vercel**
- Implemented semantic search for **10,000+** events with **Supabase RPC**, reducing irrelevant results by **67%**
- Built map view with dynamic marker clustering using **Google Maps** and **Redis**, creating endpoints to reduce render times by **81%** and data payload by **95%** through region-based loading and on-demand data retrieval

PROJECTS

BeyondSight (Hack the North Winner) 🏆 Python, SLAM, Yolo, Whisper, Docker

Sep. 2025

- Selected as a track winner out of **2,000+ hackers** and **300+ projects** at Canada's largest hackathon: **Devpost**
- Built a full-stack **hardware + AI system** enabling navigation and communication for individuals who are deafblind using **AI-powered** text-to-speech and speech-to-text, a **vest with haptic motors** and a **braille-enabled gauntlet**
- Integrated **OpenAI Whisper** for speech recognition with in-house optimizations that improved transcription accuracy by **15%** and reduced latency by **21%**
- Deployed components in **Docker** containers and optimized outdated **Xbox camera** support on Linux for navigation

FATELESS Studios (Hack the Valley Winner) 🏆 Python, MCP Server, Gemini

Oct. 2025

- Selected as a track winner out of **750+ hackers** and **100+ projects** at one of Canada's largest hackathons: **Devpost**
- Developed an **MCP-powered AI pipeline system** infinitely automating the generation of **entire games** from character/cutscene/background generation, animation and gameplay logic, to player decision management in real time.
- Utilized **8 different pipelines** for **game generation**, from NanoBanana for creating custom sprites and backgrounds