

AAYUSH GROVER

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Education

University of Waterloo

Bachelor of Computer Science (BCS), Artificial Intelligence Specialization

Sep 2024 – May 2028

Waterloo, ON

- 3.98/4.0 GPA (95%)

Technical Skills

Languages: JavaScript/TypeScript, Python, C, C++, Java, SQL, GraphQL, Swift

Libraries/Frameworks: React/React Native, TensorFlow, PyTorch, Next, LangChain, Express.js, TailwindCSS

Developer Tools: AWS, Docker, GCP, Kubernetes, PostgreSQL, Git, Redis, Postman, Jira, Azure, MongoDB, Node

Experiences

Shopify

Sep 2025 – Dec 2025

Machine Learning Engineering Intern

Toronto, ON

- Scheduled for a 4-month MLE internship working on Shopify Sidekick

Nokia

May 2025 – Aug 2025

Machine Learning Engineering Intern

Ottawa, ON

- Built a Network-as-Code AI agent, enabling network configurations at **80% reduced costs** via API financial arbitrage
- Scaled to over **74,000 APIs** by developing a Python script that maps API metadata to autonomous GoogleADK agents
- Benchmarked 8 agent frameworks to inform effective adoption for **10,000+ engineers** through rigorous evaluations
- Developed a **patent on horizontally-scalable API agents** with SLA optimizations, pending formal submission

Hack the North

Mar 2025 – Sep 2025

Full-Stack Developer

Waterloo, ON

- Shipped the [homepage](#) for Canada's largest hackathon hosted at Waterloo, attracting **780,000+** annual page visitors
- Built and deployed the [2025 hacker application portal](#) alongside a hacker RSVP system used by **6,000+ applicants**

Nokia

Jul 2023 – Aug 2023

Software Engineering Intern

Ottawa, ON

- Engineered a semantic search pipeline for **5,000 R&D projects** by using LangChain and sBERT vector embeddings
- Implemented **15+ model optimizations** (embeddings, chunking strategy, etc.) to cut latency over **4,000+** searches

Projects

MeetCode.World (1500+ Users) [[GitHub](#), [Demo](#)] | React, JavaScript, Socket, Express, Redis, MongoDB, OpenAI

- Built scalable RESTful APIs with Express to manage user sessions, real-time data streaming, and code compilation
- Integrated an LLM pipeline using OpenAI's APIs, transcribing audio and streaming responses with <2s latency

Synthetic Data Generation [[GitHub](#), [Demo](#)] | Python, PyTorch, Pandas, Numpy, Matplotlib

- Trained a CNN model to detect pneumonia in Chest X-rays achieving an 85% classification accuracy using PyTorch
- Implemented a GAN model to generate synthetic medical data, trained on 5,200+ Chest X-Rays in TensorFlow

Vibe Prompting (Berkeley AI Hackathon) [[GitHub](#), [Demo](#)] | React, GoogleADK, Python, TailwindCSS

- Developed a reinforcement-learning-based prompt optimizer to perfect system prompts for GoogleADK agents