

ARYAN AWASTHI

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Education

Concordia University

Master of Applied Computer Science

August 2023 - May 2025

Montreal, Quebec

Amity University

Bachelor of Technology in Computer Science and Engineering

July 2017 - June 2021

Noida, India

Skills

Programming Languages: Python, Java, C++, TypeScript, SQL.

LLMs & Generative AI: LangChain, LangGraph, FAISS, Pinecone, Elasticsearch, Gemini API, Llama3, TensorFlow, Vertex AI.

Backend & APIs: FastAPI, Flask, REST APIs, WebSockets, Play Framework, Akka Actors, Node.js, Hono, BullMQ.

Frontend & UI/UX: Next.js, React, Tailwind CSS, HTML, CSS, Material Design, Android SDK.

Databases & Storage: PostgreSQL, MySQL, Redis, Vector Databases (FAISS, Pinecone), Apache Spark, Hadoop.

Cloud & DevOps: AWS (SageMaker, Lambda, S3), Docker, Kubernetes, Vercel, GitHub Actions, MLflow, Kubeflow, CI/CD, Git.

Modern Tools & Frameworks: Bun, Playwright, Xenova/transformers, Cloudinary, Streamlit, n8n, SonarQube, Grafana.

Soft Skills: Analytical Thinking, Innovation, Problem-Solving, Team Collaboration, Adaptability.

Experience

Amazon Canada FC, ULC

October 2023 – May 2025

Associate I

Montreal, QC, Canada

- Provided technical support for warehouse operations, resolving **100+ device issues** daily and maintaining **95% uptime**.
- Automated routine tasks using scripting tools, reducing manual errors by **15%** and improving efficiency by **20%**.
- Monitored system performance and analyzed logs to identify and resolve technical issues, reducing incident response time by **30%**.
- Collaborated with cross-functional teams to implement system improvements, resulting in **25% faster** problem resolution.
- Maintained documentation for technical procedures and provided training to **15+ team members** on new systems.
- Ensured compliance with IT security protocols and data protection standards, achieving **100% compliance** in warehouse operations.

Comviva

June 2021 – August 2021

TechOps Engineer

Gurugram, India

- Developed and maintained enterprise applications using Java and Spring Framework, serving **500+ users** across multiple projects.
- Implemented RESTful APIs and microservices, improving system scalability by **40%** and reducing response time by **25%**.
- Collaborated with cross-functional teams to deliver software solutions, completing **15+ projects** within deadlines.
- Performed code reviews and implemented best practices, reducing bug reports by **30%** and improving code quality.
- Worked with databases including MySQL and PostgreSQL, optimizing queries and improving performance by **35%**.
- Participated in Agile development processes and contributed to sprint planning, achieving **95% sprint completion rate**.

Projects

Tik AI - TikTok AI Agent | Next.js 14, React 18, TypeScript, Tailwind CSS, Google Gemini 2.5 Flash, Google Veo 2/3, Gemini API.

Vertex AI | [Website](#)

June 2025 - Sep 2025

- Built AI-powered content analysis system using Google Gemini 2.5 Flash with **90%+ accuracy** and **<2s response time**.
- Integrated Google Veo 2 model for video generation with 5-8s promotional content and 3-5min generation time.
- Built Next.js dashboard with TypeScript and Tailwind for unified content workflow supporting **100+ concurrent users**.
- Created scalable service-oriented architecture with modular AI services handling **1000+ video assets**.
- Implemented production-ready deployment with Docker containerization and Vercel achieving **99%+ uptime**.
- Integrated multiple Google AI services with fallback mechanisms supporting **4+ video styles** and **3+ aspect ratios**.

Scrapy - TikTok Scraper with AI-Powered Vector Search | Bun, Hono, BullMQ, Redis, Playwright, Xenova/transformers, TypeScript,

PM2, Docker | [Website](#)

July 2025 - Aug 2025

- Successfully scraped **100+ TikTok videos** with comprehensive metadata extraction.
- Created AI vector search using all-MiniLM-L6-v2 with **100ms embedding** and **<50ms search time**.
- Created a scalable architecture that handles **1000+ concurrent embeddings** efficiently.
- Implemented BullMQ + Redis queue processing **3 jobs/5s** with 120s timeout protection.
- Designed scalable storage achieving **2KB per video** with efficient memory management.

Multi-Agent LLM Chatbot with Reinforcement Learning | Python, Llama3, LangChain, FAISS, FastAPI, Streamlit, RLHF |

[GitHub](#)

January 2025 - April 2025

- Implemented a multi-agent chatbot system achieving **92% routing accuracy** and **87% response relevance** across diverse queries.
- Improved the RAG pipeline with FAISS integration, **3x context retrieval speed**.
- Integrated Human feedback reinforcement learning (RLHF), boosting engagement by **35%** and reducing latency by **45%**.
- Developed and trained a reward model on **1,000 + feedback logs** to enable adaptive response re-ranking.
- Developed an interactive Streamlit dashboard for real-time analytics, feedback collection, and performance monitoring.

TubeLytics v2 – Reactive YouTube Analytics Dashboard | Java, Scala, Play Framework, Akka Actors, WebSockets, Docker, GitHub

Actions | [GitHub](#)

September 2024 - December 2024

- Designed a real-time dashboard that streams channel, video, and tag analytics from the **YouTube Data API v3** via WebSockets for a smooth, refresh-free user experience.
- Introduced **Akka** actor supervision and request **caching**, trimming YouTube API calls by **60%** in typical usage scenarios.
- Added word-frequency and tag modules that process **1M+** description words per query without blocking the main event loop.
- Achieved **90%+** unit-test coverage on controllers and services with **JUnit 5** and **sbt CI** checks.