





# Elisa Ding

 [linkedin.com/elisading27](https://www.linkedin.com/elisading27)  [elisa.ding@hotmail.com](mailto:elisa.ding@hotmail.com)  [github.com/elisading](https://github.com/elisading)  [elisading.com](https://elisading.com)

## EDUCATION

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**University of Toronto**

BASc, Engineering Science (Machine Intelligence) ▪ Engineering Business Minor

**Toronto, ON**

April 2023

## SKILLS

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**Languages:** TypeScript ▪ Python ▪ Swift ▪ SQL ▪ Bash

**Frameworks:** React Native ▪ Expo ▪ Next.js ▪ FastAPI ▪ Pydantic ▪ Zod ▪ Tailwind

**Backend:** API Design (REST/GraphQL) ▪ WebSockets ▪ Microservices ▪ OAuth2/JWT ▪ Sentry

**Databases:** PostgreSQL (Supabase) ▪ Graph-Relational (Gel, InstantDB) ▪ Redis ▪ Firestore

**Infra:** AWS ▪ Docker ▪ Kubernetes ▪ RunPod (GPU cloud) ▪ GitHub Actions (CI/CD)

## EXPERIENCE

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**Authentic Intelligence**

**NYC / SF**

Founding Engineer

Nov 2024 – Dec 2025

- o Built “AI clone” consumer social product; shipped multiple iterations while scaling to ~**3k MAU**.
- o Launched VLM-based onboarding by sampling user camera roll images to generate a profile for seeding conversations; increased Day-1 engagement by ~**5×** (messages sent, measured by **Posthog**).
- o Implemented AI selfies feature: ran per-user **FLUX LoRA** training and inference via **Replicate/fal.ai**.
- o Shipped realtime AI avatar video calls using **LiveKit** with GPU inference on **Runpod**.
- o Integrated multi-provider LLMs (GPT/Claude/Gemini/Grok); **A/B tested** prompting and safety flows.
- o Maintained deployment/ops on **AWS (Flightcontrol)**; integrated **Sentry** for error/perf monitoring.

**Gamebytes (YC S19)**

**NYC**

Founding Engineer

Oct 2023 – Oct 2024

- o Built first monetization stack, running pricing tests to grow revenue from **\$0** to **\$5k/mo** within **4 mo**.
- o Shipped **SwiftUI** iMessage games; built gameplay, animations, and performance improvements while handling concurrency and state for multiple players.
- o Maintained and launched features for **React Native** app and **Firebase** backend, supporting growth to over **5M downloads** and **6K DAU**.

**Trimble Inc.**

**Toronto, ON**

Autonomous ML Intern

May 2021 – Aug 2022

- o Implemented **PointNetVLAD** in TF2/Keras for LiDAR place recognition; achieved **6×** faster inference via custom gradients and **ONNX** export.
- o Deployed distributed training on NVIDIA DGX with **Kubernetes/Docker**; automated **CI/CD** in GitLab.

## PROJECTS

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**Winnie (AGI House Hackathon Winner)**

Fine-tuned **Llama-2-Chat 13B** on synthetic data; hosted inference via **Poe** and **Modal**.

**Audiart**

Generated playlist cover art via Spotify + OpenAI APIs; **Flask** backend, deployed on **Vercel**.

## RESEARCH PUBLICATIONS

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**NoFADE: Analyzing Diminishing Returns on CO2 Investment** (NeurIPS CCAI 2021)

Metric for CO<sub>2</sub> impacts of large CV models.

**P4AI: Approaching AI Ethics Through Principlism** (NeurIPS HCAI 2021)

Framework for operationalizing AI ethics.