

Sarah Akhavan

AI/ML Engineer · AI Infrastructure

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EXPERIENCE

Kyoso, Lumina Platforms Inc.

Software Engineer, ML Generalist

OCT 2025 - PRESENT, Toronto

- Expanded a creative generation platform from image-only to video, speech, music, and super-resolution, designing the async orchestration, media handling, and shared document-model infrastructure required to support new modalities.
- Designed shared provider abstractions and cross-service contracts for a multi-provider model platform, enabling 30+ models from 14 providers to integrate through common interfaces..
- Designed and built a production asset-registration subsystem, including vendor integrations, storage, retry and reconciliation workflows, asset-role modeling, metadata management, and agent-facing tooling.
- Designed model-facing API contracts, prompting, capability guidance, and error handling, including a typed style library and backward-compatible model interfaces across providers with different requirements.
- Built a rubric-based VLM judge for automated layout-quality evaluation and scenario-based evaluation flows for LLM tool selection; engineered tool schemas and agent instructions supporting selection across 30+ models.

Software Engineer Internship, ML Generalist

MAY 2025 - SEP 2025, Toronto

- Conducted diffusion-model research, built production ComfyUI generation workflows, and collected data, labeled, and trained LoRA adapters for brand-specific style and subject control.

York University

Lecturer | Computer Science and IT

MAY 2020 - PRESENT, Toronto

- Designed curriculum and taught 1,000+ students across 20+ sections in Data Structures, System Analysis & Design, and Information Mapping & Networks.
- Taught data visualization and analysis concepts spanning data preparation, exploratory analysis, visual encoding, and information representation.

Research Scientist | Practices in Enabling Technologies (PiET) Lab, York University

SEP 2018 - APR 2025, Toronto

- Designed a usability evaluation framework; analyzed data from 151 participants.
- Developed an empirically derived group-persona technique for inclusive assistive-technology design.

EDUCATION

MSc HCI | York University

SEP 2018 - JUL 2022

BSc Software

Engineering | Amirkabir

University of Technology

SEP 2013 - AUG 2018

SKILLS

Generative AI: LLM

Agents · Tool-Schema

Engineering · MCP ·

Diffusion Models · LoRA

Training · ComfyUI

Engineering &

Languages: Python · C++

· PostgreSQL · asyncio ·

AWS S3 · FastAPI ·

BigQuery · Datadog ·

OpenTelemetry · Pydantic

· Docker · Scikit-Learn ·

pandas · NumPy

EARLIER EXPERIENCES

Adanic Banking

Informatics

Product Designer and

Front-end Developer

DEC 2016 - JUL 2018, Tehran

Torob Online Markets

Search Engine

UX/UI Design Intern

JUN 2016 - SEP 2016, Tehran

HONORS & AWARDS

Graduate Entrance

Scholarship / Lassonde

School of Engineering · Fall

2018

2nd Place / Local ACM

Contest · 2014

1st All-girls Team / Regional

ACM Contest · 2013 & 2014

99.5 percentile / National

University Entrance Exam ·

Fall 2013 · Iran