Simon Ho

AI / Machine Learning Engineer

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SKILLS

AI Systems & Machine Learning
Agentic Workflows, RAG, Evaluation Frameworks (MLflow), LLM Integration (OpenAI, Anthropic)

Engineering & Data
Python, TypeScript, SQL, Statistical Modeling, Data Pipelines, API Design (GraphQL, REST)

Infrastructure & Cloud
AWS (Bedrock, Lambda), Terraform (IaC), CI/CD, Docker, Observability

EXPERIENCE

Machine Learning Engineer Apr 2024 - Sep 2026
Sprung Studios

- Architected internal AI tools and LLM-powered workflows using AWS, Terraform, and external APIs.
- Shipped transcription and review-aggregation products from prototype to production.
- Joined as a User Researcher in 2021; transitioned to ML Engineering in 2024.

Research Scientist, Cognitive Science Sep 2013 - Nov 2020
Attentional Neuroscience Lab

- Led quantitative research across 16+ experiments, building Python pipelines that reduced data cleaning time by 90%.
- Developed Python tools for time-series analysis and data collection across nine projects.

Research Scientist Dec 2019 - Apr 2020
Microsoft

- Developed algorithms for extracting novel spatial metrics on the HoloLens 2 platform.

PROJECTS

Agent Evaluation & Observability Pipeline

- Built an OpenTelemetry tracing pipeline that routes OTLP traces into MLflow for evaluation.
- Implemented trace correlation linking workflow traces to LLM-as-a-judge results.

Warden: Container Security Layer

- Built an open-source container layer isolating autonomous agents' network and filesystem access.

babygrad

- Built a zero-dependency Python ML library implementing linear algebra, autograd, neural networks, and transformers from scratch.

EDUCATION

University of British Columbia 2015 - 2020
PhD Cognitive Science & Statistics