

EASON HUANG

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EDUCATION

University of Waterloo

Bachelor of Computer Science

Waterloo, ON

Expected 2031

TECHNICAL SKILLS

Languages: C++, C, Python, CUDA, Rust, SQL, Java, Go, TypeScript, HTML/CSS

Frameworks & Tools: PyTorch, TensorFlow, Triton, LangChain, Docker, Kubernetes, PostgreSQL, Linux, Git, Bash

EXPERIENCE

Nokia (Cloud & Network Services)

May 2025 – Aug 2025

AI/ML Developer

Oakville, Ontario

- Built an MCP/A2A agent on Kubernetes that learns from 5G technical docs and keeps long-term memory.
- Combined BM25, vector search and a Neo4j knowledge graph to search 3000+ pages of network documentation.
- Built structure-aware YAML/XML/YANG chunking that keeps parent key paths, improving recall@10 by 26%.
- Made network diagrams searchable by text using CLIP embeddings and OCR.
- Fine-tuned Qwen-7B with QLoRA and GRPO on TeleQnA to specialize it in 5G and 3GPP standards.

Factful (Startup)

July 2023 – Nov 2025

Co-founder

Remote

- Built the RAG search behind the fact-checker, reranking results so credible sources come first.
- Led a team of 5 building the product with Flask, React and Kubernetes on Azure, reaching 20k+ visits in beta.
- Finalist in Sequoia Arc, Y Combinator and a16z startup programs; raised \$10k+ in credits.

PROJECTS

CPU Matmul from Scratch | C++, perf

- Wrote a matrix-multiply (GEMM) kernel for Zen 5 CPUs that runs 3% faster than OpenBLAS.
- Implemented an AVX-512 microkernel with C++ intrinsics, hierarchical tiling, memory packing and autotuning.
- Profiled IPC and L3 cache misses with perf and modeled memory bandwidth to guide tiling decisions.

Neural Network From Scratch | Python, NumPy

- Built an MLP in pure NumPy with hand-derived backpropagation and gradient descent, reaching 98% on MNIST.

Bluetooth Keyboard Adapter | C, ESP-IDF, FreeRTOS, BLE, PCB design

- Designed an ESP32-S3 PCB and case that makes any wired USB keyboard wireless.
- Wrote C firmware that reads the keyboard as a USB host and forwards keystrokes over a Bluetooth LE HID service.
- Added encrypted pairing with bonds saved to flash, so it reconnects without re-pairing.

Phys.io (Won HackTheRidge) | Python, OpenCV, Flask, React, Vite, Tailwind

- Built a webcam app that scores physiotherapy exercises in real time by comparing joint angles to reference poses.
- Wrote the Flask backend and React/Tailwind frontend.

HONORS & AWARDS

Schulich Leader Scholarship (UofT): Winner of Canada's premier \$120k STEM undergraduate scholarship, declined
Ronald G. Scoins National Scholarship: \$18k entrance scholarship for outstanding students