

Kian Khooban

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Eligible for co-op and internship work in Canada.

EDUCATION

York University, Lassonde School of Engineering
BSc (Honours), Computer Science

Toronto, ON
Expected May 2028

EXPERIENCE

Undergraduate Researcher

Apr 2026 – Present

York University, Lassonde School of Engineering

Toronto, ON

- Research on computer arithmetic and digital hardware design, focused on bottlenecks in memristor-based compute-in-memory architectures.
- Designing and implementing arithmetic units in SystemVerilog, targeting a Xilinx Artix-7 FPGA.

Software Engineer

Apr 2025 – Apr 2026

Hoshmand Afarin Inc.

Toronto, ON

- Owned the frontend of an investor dashboard: account creation and per-investor views of mining hardware and returns. Used by roughly 20 clients. React, JavaScript.
- Integrated live BTC, ETH and SOL price feeds, and wrote the SQL against the MySQL store backing investor and earnings data.
- Pitched the company's clean-energy mining model to prospective Canadian investors. Startup of roughly 12 people, 3 engineers. Full-time for 3 months, then part-time.

Campus Partner

Sep 2025 – Jan 2026

Perplexity

Toronto, ON

- Ran two live workshops, for York's CS Hub and Finance Students Association, to about 60 students total, and drove 30+ sign-ups through the workshops and peer outreach.

Peer Tutor

Sep 2025 – Jan 2026

York University

Toronto, ON

- Tutored undergraduates in natural science and MATH 1090 (Logic for Computer Science) through one-on-one sessions and drop-in hours.

PROJECTS

Expiry | *TypeScript, Next.js, Foundry IQ*

github.com/kiankhooban/expiry | expiry-gamma.vercel.app

- Medical reversal radar: flags treatments whose supporting evidence has been overturned by an updated clinical guideline.
- Split the system deliberately: a deterministic rules engine flags and never calls a model, so no clinical decision is left to an LLM; citation-backed explanations are generated on demand. Shipped live with a 60-patient cohort.

OmniGate | *Python, FastAPI, Claude, React, Scanpy*

github.com/kiankhooban/omnigate

- Natural-language single-cell analysis: ask a biology question, Claude writes Scanpy code that runs sandboxed on real data and returns a real figure and numbers, and refuses honestly when the data cannot answer. Built with Claude: Life Sciences (Anthropic x Gladstone).

Paper-to-Deck Architect | *Python, Google ADK, Gemini*

github.com/kiankhooban/paper-to-deck

- Multi-agent system turning a dense research PDF into a paced Reveal.js slide deck. Agents split extraction, narrative structuring, slide generation, and figure matching. Kaggle 5-Day AI Agents Capstone.

OPEN SOURCE

- **[anthropics/anthropic-sdk-python #1639](#)** (open, under review): guard against bare unparameterized dict/list in `construct_type` and `transform`.
- **[modelcontextprotocol/python-sdk #2777](#)** (open, under review): add exception chaining across all `except` handlers, 11 sites.

SKILLS

Languages: JavaScript, TypeScript, Python, Java, C++, SQL, SystemVerilog, RISC-V Assembly

Frameworks and libraries: React, Next.js, Node.js, FastAPI, Google ADK

Tools: Git, MySQL, Vercel, Linux, Kaggle, Vivado