

James Han

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EDUCATION

University of Toronto

B.Sc. Computer Science and Statistics (Co-op)

- Trinity College Academic Merit Grant, Leonard McLaughlin Scholarship
- Linear Algebra (A+), Data Structures and Algorithms (A+), Computational Biology (A+)

Toronto, ON

Sep. 2023 – May 2027

EXPERIENCE

RBC Capital Markets, Electronic Trading

Quantitative Trading Analyst

- Joining front-office desk to research **market microstructure** and develop **reinforcement learning-driven execution algorithms** for global equities; working with **kdb+/q**, stochastic modeling, and real-time order flow analysis.

Toronto, ON

Incoming

Mozilla Firefox

Full-Stack Software Engineer, Privacy Engineering

- Led **Felt Privacy** initiative reaching **250M+ users** as technical PM. Designed features from telemetry analysis and user research; coordinated cross-functional team of 6 engineers and 2 designers across 8-week release cycles.
- Shipped New Tab privacy widget: led full product lifecycle from **8 user interviews** and UI design through React/Rust implementation, Glean instrumentation, and Nimbus A/B experiments with **2M+ users**. Achieved **32% engagement increase**; owned strategy, execution, and deployment.
- Defined product analytics strategy: instrumented **20+ behavioral events**, built Glean dashboards tracking activation and retention, reduced privacy settings drop-off by **24%** through data-driven UX iteration.

Berlin, Germany

Oct 2025 – Present

Anthropic

Claude Builder Ambassador

- Represented Anthropic in Toronto's AI community. Organized hackathon attracting **400+ developers**. Delivered MLOps workshops to **1500+ students**. Managed social channels reaching **230k monthly views** through short-form technical content and event marketing.

Toronto, ON

Sep 2025 – Present

University of Toronto, Department of Computer Science

Software Engineer, Supervised by Prof. David Liu

- Led product development for \hookrightarrow **MarkUs** serving **27,000+ students** and **300+ instructors**. Conducted user interviews with TAs and instructors across 6 courses to identify workflow pain points.
- Shipped assignment visibility feature: prioritized based on instructor feedback, coordinated with 2 engineers, tracked adoption reaching **78%** of active instructors within 5 weeks. Reduced related support tickets by **40%**.

Toronto, ON

May 2025 – Aug 2025

PROJECTS AND AWARDS

\hookleftrightarrow **1st Place Overall, Google \times Hack the Future (Revo)** | *GCP, Gemini, FastAPI, PyTorch*

- ML fraud detection with XGBoost + Gemini; **sub-100ms** latency. Presented at Google HQ (**1st/260 teams**).

\hookleftrightarrow **1st Place Overall, UofTHacks (Persona)** | *PyTorch, OpenCV, Mediapipe, Three.js*

- Real-time emotion detection (Mediapipe \rightarrow PyTorch) serving 3D lip-synced elevenlabs avatar. **1st/330 hackers**.

\hookleftrightarrow **PythonTA, Core Contributor** | *Python, Pylint, Astroid, React*

- Core contributor to static analysis engine serving **10K+ students annually**. Shipped **8 major features** including recursion detection and pattern matching. Led UX redesign reducing error resolution time **30%** through A/B testing.

LEADERSHIP

Vice President, UofT Blueprint - Led 4 engineering teams building pro-bono software for non-profits

Director, UofT AI - Organizing ML workshops, research talks, and hackathons for **2,350+ students**

Orientation Coordinator, Trinity College - Led **90 volunteers** and **\$130K budget** serving **530** undergrads

TECHNICAL SKILLS

Product & Analytics: A/B testing, experimentation design, user research, SQL, Python (pandas, scipy, statsmodels)

Data Tools: Looker, regression analysis, hypothesis testing, funnel optimization

Engineering: TypeScript, React, PostgreSQL, Git, Docker, AWS/GCP, data pipelines