

# James Han

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## EDUCATION

### University of Toronto

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

Toronto, ON

Sep. 2023 – May 2027

– Trinity College Academic Merit Grant, Leonard McLaughlin Scholarship

– Linear Algebra (A+), Data Structures and Algorithms (A+), Computational Biology (A+)

## EXPERIENCE

### RBC Capital Markets, Electronic Trading

Toronto, ON

Incoming

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.

### Mozilla Firefox

Berlin, Germany

Full-Stack Software Engineer, Privacy Engineering

Oct 2025 – Present

– 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.

### Anthropic

Toronto, ON

Claude Builder Ambassador

Sep 2025 – Present

– 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.

### University of Toronto, Department of Computer Science

Toronto, ON

Software Engineer, Supervised by Prof. David Liu

May 2025 – Aug 2025

– Led product development for **→ 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%**.

## PROJECTS AND AWARDS

### → 1st Place Overall, Google × Hack the Future (Revo) | GCP, Gemini, FastAPI, PyTorch

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

### → 1st Place Overall, UofTHacks (Persona) | PyTorch, OpenCV, Mediapipe, Three.js

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

### → 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