

JAMES HAN

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EDUCATION

University of Toronto (Co-op Program)

Bachelor of Science in Computer Science, Statistics, and Economics

Toronto, ON, Canada

Sep. 2023 – May 2027

- Awarded the Trinity College Academic Merit Grant, Leonard McLaughlin Scholarship

EXPERIENCE

RBC Capital Markets

Incoming Jan 2026

Full-Stack Software Engineer, U.S. Cash Management

Toronto, ON

- Developing RBC Clear, a greenfield AI-powered cash management platform for Fortune 1000 corporations, building intelligent features for payment processing, fraud detection, and treasury analytics on a cloud-native stack

Anthropic

Aug 2025 - Present

Claude Builder Ambassador

San Francisco, CA

- Leading Toronto's premier AI hackathon for **700+** developers, coordinating technical infrastructure and mentorship
- Delivering hands-on workshops on MLops, prompt engineering, and AI safety for **1500+** undergraduates

Department of Computer Science, University of Toronto

May 2025 - Aug 2025

Full-Stack Software Engineer

Toronto, ON

- Supervised by Associate Chair **Prof. David Liu**
- Optimized the **PythonTA** open-source static analysis framework using **Astroid**, **Pytest**, and **Pylint**, delivering **performance improvements** that serve **3000+** students
- Developing **Markus**, a production assignment platform using **React**, **Docker**, and **Ruby on Rails** serving **20,000+** students at UofT and Waterloo in an **agile development environment**

Canada Life

Sep 2025 - Present

Full-Stack Software Engineer

Toronto, ON

- Building **SQL Server** databases and stored procedures for actuarial data processing and financial modeling
- Developing scalable **.NET** applications for financial analytics dashboards serving data scientists and business analysts
- Creating responsive **React** components for insurance risk assessment and performance visualization

PROJECTS AND AWARDS

Hack the North 2x Award Winner - Groq and Windsurf (**Orbit**) | *OpenCV, Langchain, Cerebras*

Sept 2025

- Built facial recognition system with **OpenCV** and **Deepface** model achieving **sub-300ms response times**
- Engineered scalable **Groq** and **Langchain** pipeline with **Cerebras** models for high-performance inference

1st Place Overall at Google x Hack the Future (**Revo**) | *GCP, Gemini Pipeline, FastAPI*

Mar 2025

- Built a **Gemini** fraud detection system reducing fraud by **57%**, deployed on **GCP** with distributed **FastAPI** backend
- Led our team's pitch at **Google HQ** to industry experts, placing **1st** among **200** teams

1st Place Overall at UofTHacks (**Persona**) | *Next.js, OpenCV, Mediapipe*

Jan 2025

- Engineered an AI Agent with a 3D **Three.js** avatar, with **OpenCV**, **Whisper**, and **ElevenLabs** for multimodal input
- 1st Place** among **2000+** hackers, with a **multi-threaded** ML pipeline with fine-tuned **Mediapipe** models for real-time emotion and pronunciation classification using facial landmarks

LEADERSHIP EXPERIENCE

Vice President @ UofT Blueprint

Organizing 4 non-profit engineering teams (**55 SWEs**) developing open-source software for Mozilla & City of Toronto

Director Campus Strategy @ UofT AI

Organizing technical workshops, industry talks, and software development events for 2350+ undergrad students

TECHNICAL SKILLS

Languages: Python, JavaScript/TypeScript, Java, SQL, C, R, Ruby

Backend: Node.js, SpringBoot, Rails, Flask, SQL Server, PostgreSQL, Redis

Frontend: React/Next.js, Vue.js, HTML/CSS, Figma

Cloud/Tools: AWS, Azure, GCP, Firebase, Docker, Git, CI/CD, Pytest, Pylint, Astroid

ML/Data: Pandas, NumPy, PyTorch, Databricks, scikit-learn, TensorFlow, Jupyter