JAMES HAN

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EDUCATION

University of Toronto (Co-op Program)   Toronto, ON, Canada
Bachelor of Science in Computer Science, Statistics, and Economics   *Sep. 2023 – May 2027*
- Awarded the Trinity College Academic Merit Grant, Leonard Mclaughlin Scholarship

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

EXPERIENCE

Toronto-Dominion (TD) Bank   Incoming Jan 2026
Software Engineer   *Toronto, ON*
- Incoming software engineer on TD's AI and Platforms team, developing machine learning solutions for financial systems

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

Canada Life   Sep 2025 - Present
Software Engineer Co-op   *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

Department of Computer Science, University of Toronto   May 2025 - Aug 2025
Software Engineer   *Toronto, ON*
- Supervised by Associate Chair **Prof. David Liu**
- Enhanced the **PythonTA static analysis** tool using **performance optimization** on **3000+** student codebases
- 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**

LEADERSHIP EXPERIENCE

Vice President @ UofT Blueprint
Managing 4 non-profit engineering teams (**55 SWEs**) developing full-stack apps 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#, C++, R, Ruby
Backend: Node.js, .NET, 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
ML/Data: Pandas, NumPy, PyTorch, Databricks, scikit-learn, TensorFlow, Jupyter