

James Han

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EDUCATION

University of Toronto

Toronto, ON, Canada

Bachelor of Science in Computer Science, Statistics, and Mathematics

Sep. 2023 – May 2027

- Vice President @ UofT Blueprint (organizing 4 **open-source** production projects for Mozilla and City Services)
- Director Campus Strategy @ UofT AI (leading AI education initiatives for **2300+ students**)
- Trinity College Orientation Coordinator managing **\$130K budget** and leading team of **93 volunteers**

TECHNICAL SKILLS

Languages: Ruby, TypeScript, Python, Java, R, HTML/CSS, C

Frameworks: Ruby on Rails, Next.js, Angular, Flask, Node.js, Express.js, SpringBoot

Cloud/DevOps: AWS (EC2, S3, Lambda), Azure, Redis, MongoDB, Docker, Firebase, Vercel, Heroku

ML/AI: PyTorch, OpenCV, TensorFlow, Databricks, Mediapipe, Jupyter Notebook

EXPERIENCE

Builder Ambassador

Sep 2025 - Dec 2025

Anthropic

Toronto, ON, Canada

- Selected to represent Anthropic, leading technical workshops and building developer communities at scale

Software Engineering Co-op

Sep 2025 - Dec 2025

Canada Life

Toronto, ON, Canada

- Building scalable backend systems and cloud infrastructure using Azure, focusing on performance optimization

Software Engineering Intern

May 2025 - Present

Department of Computer Science, University of Toronto

Toronto, ON, Canada

- Contributing to MarkUs, an open-source **Ruby on Rails** coursework platform serving **3300+** users
- Enhanced PythonTA, an open-source static analysis tool serving **1500+** students, improving codebase quality
- Built automated feedback systems integrating with pylint, pycodestyle, and mypy for scalable code review

Full-Stack Software Engineer

September 2024 - April 2025

City of Brampton

Toronto, ON, Canada

- Built production **Next.js** web application with **Node.js** backend and **OAuth2** authentication at scale
- Engineered reusable **React** components with TypeScript and Tailwind, accelerating team development velocity
- Collaborated in 8-person engineering team using **Git** workflows and **agile** methodologies for rapid iteration

Full-Stack Software Engineer

December 2023 - August 2024

Markyt, University of Toronto Funded Startup

Toronto, ON, Canada

- Architected and scaled **SvelteKit** marketplace platform connecting influencers with businesses
- Built secure authentication and **Firestore** database handling **1000+** daily transactions with high availability
- Integrated **Stripe** payment processing with webhook automation for subscription management at scale
- Led technical architecture and **Vercel** deployment, maintaining 99.9% uptime and sub-200ms response times

PROJECTS AND AWARDS

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

January 2025

- Engineered microservices-based language learning platform with real-time **computer vision** for scalable user analysis
- Won **1st Place** among **2000+** applicants, demonstrating technical innovation and rapid prototyping skills

1st Place at Google x Hack the Future (Revo) | *Next.js, GCP, Gemini, Mapbox, React Flow*

March 2025

- Built production-ready return management system using fine-tuned **Gemini** models, reducing fraud by **57%**
- Presented scalable solution at **Google HQ**, placing **1st** among **200** teams through technical excellence

1st Place at Hack the 6ix Game Track (Polaris) | *Three.js, Computer Vision, WebSockets*

July 2025

- Built full-stack fitness application using **computer vision** for dual-player tracking with **sub-300ms latency**
- Developed custom **3D rendering engine** achieving **60+ FPS** with real-time processing and procedural generation