

# Christoffer Tan

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## EDUCATION

### University of Toronto (UofT)

#### Bachelor of Science in Computer Science and Data Science

GPA: 3.98/4.0

Toronto, ON

Expected June 2026

- Concentration in Artificial Intelligence; Certificate in Business Fundamentals (Rotman School of Management)
- Relevant Coursework: Multivariable Calculus, Linear Algebra, Probability & Statistics, Data Science, Machine Learning, Software Engineering, Web Programming, Algorithms & Data Structures, Operating Systems, Database Systems

## PROFESSIONAL EXPERIENCE

### Royal Bank of Canada (RBC)

#### Data Science Intern

Toronto, ON

May 2025 – August 2025

- Designed a Python NLP pipeline to flag unauthorized IT assets from 1,000+ records, reducing compliance review time by 80%.
- Created an executive dashboard highlighting high-risk hardware/software assets, guiding remediation for 5,000+ employees.
- Developed a Kibana risk-metrics dashboard for 10+ teams, improving leadership visibility into emerging risks.

### Bang Jamin

Jakarta, Indonesia

#### Software Engineer Intern

June 2024 – August 2024

- Optimized REST APIs for a car dealer dashboard (TypeScript, Node.js), improving load times by 20% for 1,000+ active users.
- Integrated external insurance APIs with MongoDB to streamline insurance policy generation for 3+ dealer platforms, reducing manual steps by 50% and raising efficiency by 60%.
- Added Jest tests and Swagger documentation, reducing onboarding time for new developers and improving API reliability.

## ACADEMIC EXPERIENCE

### Department of Statistical Science & Mathematics; UofT

Toronto, ON

#### Teaching Assistant (Intro to Data Science, Probability & Statistics I, and Calculus I)

September 2024 – Present

- Led weekly tutorials and office hours for 50+ students across 3 courses, guiding Python, probability, and calculus concepts.
- Graded assignments, quizzes, and exams while supporting exam review sessions and mentoring first-year students.

### Department of Computer Science; UofT

Toronto, ON

#### Undergraduate Researcher

September 2025 – Present

- Developed an NLP pipeline (Gemini, Phi-3, BERT) to analyze 500+ NHL scouting reports, achieving 90% agreement with human annotators and uncovering patterns in how scouts evaluate talent across positions and seasons.
- Built t-SNE and PCA visualizations for trait analysis and collaborated with Kinesiology researchers on multi-sports extensions.

### Department of Statistical Science; UofT

Toronto, ON

#### Undergraduate Researcher

June 2025 – August 2025

- Implemented transfer-learning models (UNet, VAE, DDPM) to downscale coarse satellite aerosol data into finer-resolution images for long-term climate analysis, improving predictive performance by 60% and reducing RMSE to 0.06.

## LEADERSHIP

- **Head of Operations, Indonesian Student Association, UofT** – Coordinated logistics, budgeting, and cross-team operations for a 300+ member community, improving event attendance by 25% and delivering cultural and social programming year-round.
- **Captain, Badminton Intramural, UofT** – Led a 15-player team to a semifinal finish through organized practices.
- **Mentor, Statistical Science Union, UofT** – Advised junior students on coursework, research paths, and early career steps.

## SKILLS AND INTERESTS

**Programming** Python, C/C++, Java, SQL, R, JavaScript, HTML/CSS

**Data & Tools** Pandas, NumPy, Scikit-learn, PyTorch, Tensorflow, Excel, Tableau, Power BI, Git, Kibana

**Interests** Badminton, Travel, Gym, Podcasts, Investing, Tech, Basketball

## HONORS AND ACHIEVEMENTS

Government of Indonesia Full-Ride Scholar (\$400,000) | UofT International Scholar (\$100,000) | Best Presentation Award, DataFest @ UofT x CourseKata (2024) | Top 15 for National Informatics Olympiad | Woodsworth College In-Course Scholarship (\$750)