

# Axel Tang

axeltang.me

axel.tang@mail@utoronto.ca

linkedin.com/axel-tang-2b22572b6/

github.com/AxelTWC

## Education

### University of Toronto

2025 - Expected 2027

Master of Engineering (Emphasis on Data Analytics and Machine Learning)

Toronto, Canada

- **Relevant Coursework:** Applied Deep Learning, Foundation of Data Analytics and Machine Learning, Intro to Cloud Computing

### University of Ottawa

2020-2024

Honours Bachelor of Science in Computer Science (GPA: 3.51 / 4.00)

Ottawa, Canada

- **Honours and Awards:** Dean's Honour List, International Merit Scholarship

### Credentials

2025

Post Grad Certifications

Remote

- **Harvard Online:** Data Science for Business
- **Deeplearning.AI:** Machine Learning Specialist

## Recent Work Experience

### Sky Dream

Mar 2025 – May 2025

Information Technology Instructor

Hong Kong

- Provided coding and aviation related education to top elementary school students

### Hong Kong General Chamber Of Commerce

July 2024 – Aug 2024

Information Technology Intern

Hong Kong

- Implemented a **motion detection** and **face recognition system** using **Python OpenCV contour detection**, enabling security camera monitoring.
- Used fuzzywuzzy algorithm to compare data from SQL database to extract abbreviated names.
- Re-designed intranet webpages with ASP.net & CSS and data entry into system.

### InteractHealthPro

Mar 2024 – June 2024

Software Developer Intern

Canada

- Ensure smooth transition from one CMS system to another and improved operational efficiency

## Projects

### Ongoing RPS Project | Jupyter Notebook, Python, Torch, CUDA

<https://github.com/AxelTWC/RPS-PJ>

- Trained a **CNN** in **PyTorch** as a self-directed project to explore deep learning fundamentals..
- Learnt to use **data augmentation** and **ResNet18 transfer learning**, achieving **99% validation accuracy**.
- Anticipated final goal is to build a computer versus player with webcam.

### Umple | Java, Internal Language: UML

<https://umple.org>

- Actively contributed to an open source project (**model-oriented programming** tool) with 2 million visitors.
- Tasked with implementing and resolving **Java** and **Umple** issues while ensuring effective version control and **CI/CD pipeline**.
- Submitted multiple **Pull Requests**; such as extraneous bracket detection with **Regex** and **Batch Scripts** for Windows Development

### HumblexMC Server | Java Plugin Developer, Business Management

<https://humblex.net>

- Developed server plugins, automate deployment, establish online presence, lead the development team and enhance user engagement.
- Developed **Java** plugins with **Maven Bukkit API**, automated deployment with **Batch Scripts**, optimized the server's website with **SEO techniques** to improve pagerank, led the team using **Trello** and **Miro**, and executed advertising campaigns achieving 465k views.
- Increased system reliability by 90%, improved **pagerank** from 33 to 4, effectively managed the development team, and significantly boosted server growth and user engagement.

## Technical Skills

**Languages:** Python, Java, C#

**Concepts:** Artificial Intelligence, Machine Learning, Deep Learning, Neural Networks