

# Axel Tang

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 [github.com/AxelTWC](https://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 security cameras of office to have motion capture and face detection with Py OpenCV Contours.
- 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>

- An iterative project covering concepts of DeepLearning with Rock,Paper,Scissors.
- Project as of right now is to learn to utilize local machines and resulting in a functional game.
- Concepts involved: CNN, Data Augmentation, PyTorch, ResNet18, Adam Optimizer, Cross-Entropy loss, Validation Split

### 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

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

<https://humblx.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