Axel Tang

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 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..
- Used **data augmentation** and **ResNet18 transfer learning** , achieving **99% validation accuracy**.
- Built a full pipeline with **CrossEntropy loss**, **Adam optimizer**, **batch processing**, and **checkpointing**.

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