

# Jaden Wang

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## EDUCATION

**University of Toronto Scarborough** - *Honours Bachelor of Science*  
(Computer Science Specialist & Statistics Major)

cGPA: 3.44/4.0 | September 2017 - September 2021

**Relevant Coursework:** Software Design, Software Tools and Systems Programming, Introduction to Statistics

## EXPERIENCE

**University of Toronto Scarborough, ON** - *Teaching Assistant*

September 2018 - Present

- Led labs that taught computer science fundamentals and Python to over 700 students (Introduction to Computer Science I)
- Taught the essentials of data structures and algorithms using C (Introduction to Computer Science II)

**Codefusion Communications Inc, ON** - *Computer Analyst Intern*

March 2016 - June 2016

- Saved 2+ hours per day by implementing automatic solutions to tasks, including managing internal servers and workstations, via PowerShell and Bash scripting
- Assisted company clients with troubleshooting technical problems involving servers and workstations

## PROJECTS

**Carnet2** - [github.com/jadenyjw/carnet2-arduino](https://github.com/jadenyjw/carnet2-arduino)

- Engineered a **self-driving car** with a trainable neural network that can maneuver through a laid-out path
- Designed and trained a convolutional neural network with 70% accuracy on self-collected data.
- **Technologies Used:** *Software:* Python, Keras, OpenCV | *Hardware:* Arduino

**Tanks** - [github.com/jadenyjw/tanks-backend](https://github.com/jadenyjw/tanks-backend)

- Implemented a **real-time multi-client server** for a tank game accessible at <https://tanks.ml>, utilizing websockets for peer communication
- **Technologies Used:** *Backend:* Node.js | *Frontend:* React.js, Pixi.js | *Systems:* NGINX, Google Cloud

**DrawPVP** - [github.com/jadenyjw/drawpvp](https://github.com/jadenyjw/drawpvp)

- Created a **multiplayer game** where players doodle against each other to have their drawings judged by a neural network with 85% test data accuracy
- Implemented transmission between multiple clients and a server
- **Technologies Used:** JavaFX, DeepLearning4J, Kryonet

## LANGUAGES & TECHNOLOGIES

Java | Python | C | Linux | Git | SVN | Javascript | HTML | CSS | SQL