Jaden Wang

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EDUCATION

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

cGPA: 3.44/4.0 | September 2017 - September 2021

Relevant Coursework: Software Design, Software Tools and Systems Programming, Design and Analysis of Data Structures Computer Organization, Databases and Web Programming, Theory of Computation

EXPERIENCE

University of Toronto Scarborough - *Undergraduate Teaching Assistant*

September 2018 - Present

- Led labs that taught computer science fundamentals and Python to over 700 students (Introduction to Computer Science I). Topics that were covered include sorting, file I/O, and Python internals.
- Taught the essentials of data structures and algorithms using C (Introduction to Computer Science II). Topics that were covered include complexity analysis, graph theory, and memory management.

Codefusion Communications Inc - *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*

- Engineered a self-driving car with a trainable neural network that can maneuver through arbitrary paths.
- 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*

- 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*

- 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 local area network transmission between multiple clients and a server.
- Technologies Used: JavaFX, DeepLearning4J, Kryonet

Waveform Visualizer - *github.com/jadenyjw/waveform-visualizer*

- Designed a hardware waveform visualizer that displays various audio transformations received through a microphone input and plays it back in real-time with transformations applied.
- Technologies Used: Verilog, FPGA

LANGUAGES & TECHNOLOGIES

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