

Jaden Wang

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EDUCATION

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

cGPA: 3.42/4.0 | Dean's List x2 | September 2017 - December 2020

Relevant Coursework: Software Engineering, Operating Systems, Design and Analysis of Data Structures
Principles of Programming Languages, Databases, Web Programming, Algorithm Design and Analysis

EXPERIENCE

Amazon - *Software Development Engineer Intern*

May 2020 - September 2020

- Developed a human resource management platform as part of a global expansion impacting a population of over 700k employees.
- Designed and implemented scalable backend services using Java, MyBATIS, Google Guice, AWS, and a variety of other internal tools.
- Engineered frontend integration with internal APIs and backend services using React.js and Node.js

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.

PROJECTS

Carnet2 - github.com/jadenyjw/carnet2-arduino | Demo: <https://bit.ly/2lgObn0>

- 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, ESP8266

Tanks - github.com/jadenyjw/tanks-backend | Demo: <https://tanks.ml>

- Implemented a real-time multi-client server for a game, 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 local area network server-client multiplayer game where players doodle against each other to have their drawings judged by a neural network with 85% test data accuracy.
- **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 | Haskell | Linux | AWS | Git | SVN | React.js | Node.js | JavaScript | HTML | CSS | SQL