

# AARON UHR

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Toronto, ON, Canada

## EDUCATION

B.S Computer Science (3rd year)

University of Toronto

2018 - 2022 Toronto, ON, Canada

- Major GPA: 3.28/4.00

## EXPERIENCE

Software Engineer Intern

Deep Genomics

05/2020 - Ongoing Toronto, ON, Canada

- Built an experimental data ingestion platform from scratch, using **Google Cloud Platform**, **Firestore**, **Protocol Buffers**, and **Mithril.js** for researchers to keep track of ongoing and past lab experiments
- Trained a team of 20+ lab researchers on the usage of the new workflow
- Created **Cython (Python with C extensions)** bindings to existing C++ code to allow other internal Python/Cython packages to use its functionality and objects

Project Management Intern

Metadium

06/2018 - 07/2018 Seoul, South Korea

- Took part in designing the META (cryptocurrency) token economy for the Metadium identity blockchain platform from scratch
- Wrote and published Medium articles analyzing various consensus algorithms for use in distributed blockchain systems
- Managed community channels through Telegram, Twitter, and LinkedIn
- Coordinated 'airdrops' and 'bounties' on Telegram, growing the community size by over 400%

## PROJECTS

Youtube-Sync

Technologies used: **Socket.io**, **Node.js**, **Express**, **Heroku**, **jQuery**

- A web application for syncing Youtube videos and chatting across clients, using a websocket connection for each 'video room'
- Listens for playback status messages from the embedded YouTube iframe API from all the connected clients, and emits/receives the signal accordingly, controlling the embedded player
- Deployed through Heroku (<https://youtube-syncer-app.herokuapp.com>)

Toxic Comment Classifier

Technologies used: **TensorFlow**, **Keras**

- Classifies comments based on type of toxicity (threat, insult, racial, etc)
- Trained model using a convolutional neural network (CNN), and long short-term memory (LSTM) with training data provided by the Kaggle programming competition
- Embedding matrix created with the GloVe word representation vectors provided by Stanford
- Achieved over 98.2% accuracy on cross-validation with training data when classifying toxicity

Portfolio Website

Technologies used: **JavaScript**, **HTML/CSS**, **Bootstrap**, **Github Pages**

- Portfolio website to showcase my projects, with my most up-to-date resume and contact information
- Styled using CSS transitions and keyframes, and used Bootstrap Grid for the layout

## LANGUAGES

Python

JavaScript

HTML & CSS

Java

SQL

## SKILLS

Algorithm Design & Analysis

Data Structures

Git

Node

Express

Bootstrap

PostgreSQL

jQuery

Tensorflow

## STRENGTHS

Oral and Written Communication Skills

Reliable and Consistent

Works Well in Collaborative Environments

Lifelong Commitment to Learning

## FIND ME ONLINE

LinkedIn

<https://www.linkedin.com/in/aaron-uhr-61a314125/>

Personal Website

[jwuhr.github.io](http://jwuhr.github.io)

GitHub

<https://github.com/jwuhr>