

## EDUCATION

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### University of Toronto

*Bachelor's Degree in Computer Science; Major GPA: 3.28*

Toronto, ON, Canada  
2018-2022

## EXPERIENCE

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### Amazon

*Software Development Engineer Intern*

Toronto, ON

*June 2021 - Present*

- Built a data analysis tool for inbound shipments to warehouses.
- Developed an **AWS Lambda** function to receive an HTTP request, query a **Redshift** database, and send an HTTP response back to a React web app.
- All infrastructure and pipelines were set up using **AWS CDK**, including the Lambda function, the VPC for the Lambda function, and the web app.
- Developed a **React** web app from scratch, to allow user-friendly querying and business-intelligence tools.
- Regularly pushed out production iterations, using **CI/CD pipelines**.

### Deep Genomics

*Software Engineering Intern*

Toronto, ON

*May 2020 - April 2021*

- 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 data ingestion workflow.
- Created **Cython** (Python with C extensions) bindings to existing C++ code to allow other internal Python packages to use its functionality and modules.

### CoinPlug

*Product Management Intern*

Seoul, South Korea

*June 2018 - July 2018*

- Helped design the META (cryptocurrency) token economy for the Metadium blockchain platform.
- Published Medium articles analyzing various consensus algorithms for use in distributed blockchain systems.
- Managed community channels through Telegram, Twitter, and LinkedIn.

## PROJECTS

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### **Youtube Syncer:** *Tech Stack: Socket.io, Node.js, Express, Heroku, JQuery*

- Web application for syncing Youtube videos and chatting across clients, using websocket connections.
- Listens for playback statuses of the embedded YouTube iframe API from all connected clients, and emits the signal to all clients accordingly, controlling/syncing each embedded player.
- Deployed through Heroku (<https://youtube-syncer-app.herokuapp.com>).

### **Toxic Comment Classifier:** *Tech Stack: Python, Tensorflow, Keras*

- Machine learning model that 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.
- Achieved over 98.2% accuracy on cross-validation with training data when classifying toxicity.

### **Portfolio Website:** *Tech Stack: 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.

## PROGRAMMING SKILLS

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**Languages:** Python, Javascript, SQL, HTML/CSS

**Technologies:** AWS, Google Cloud Platform, Git, PostgreSQL, Node.js, Express, React, jQuery, Bootstrap