CHRIS DRYDEN

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EDUCATION

2016 – 2020	**Bachelors's Degree in Computer Engineering**	**University of Toronto**
	Minor in Machine Intelligence	

EXPERIENCE

Summer 2019 — **Data Scientist - Cyber Security** — **Royal Bank of Canada**
Part of the Amplify 2019 Cohort, worked on triaging server vulnerabilities and building models to assess cybersecurity threats. Build a prototype that consolodated four different triaging systems. Built onboarding scripts that decreased developer onboarding times by a day

```
Python  /  React  /  Pivotal Cloud Foundry
```

Fall/Winter 2018 — **AI Researcher** — **Structural Genomics Consortium**
Analyzed protein structures in the Protein Data Bank to detect binding pockets and assess viability of new cancer drugs. Created models to generate chemical structures that can be placed into viable binding pockets. Planned publishing in Epigenetics journals.

```
Python  /  Tensorflow
```

Summer 2018 — **Data Engineer** — **Shopify**
Implemented recommendation engines to give marketing recommendations. Delivered recommendations to over 600,000 e-commerce websites. Overhauled sliding window aggregate tables to improve recommendations that change over time, to reflect recent changes. Built a workflow management tool for CEO Tobias Lutke.

```
Python  /  PySpark  /  Google Cloud
```

Summer 2017 — **Data Analyst** — **Loblaws Companies Limited**
Collaborated with senior leadership to create a framework for implementing autonomous robotics into the warehouse. Created an anomaly detection model that can identify incorrectly sized items across multiple warehouses. Realized $70,000 in shipping savings in the first month.

```
Python  /  SAS
```

PROJECTS

Fall/Winter 2018 — **CEEA Paper in NLP** — **University of Toronto**
Under the supervisions of Prof. Chirag Variawa, published a paper at CEEA 2018 measuring the effectiveness of topic clustering and sentiment analysis for course evaluations.

```
Python  /  Tensorflow
```

Fall/Winter 2018 — **UTAT CV/Autonomy System** — **University of Toronto Aerospace Team**
Computer Vision and Payload lead for the UofT Aerospace Team Unmanned Aerial Aircraft division. Leading 10+ members in building autonomy and image processing systems.

```
Python  /  C++  /  C++
```

VOLUNTEERING

In collaboration with other developers I am building software systems for the *Toronto Cat Rescue* and am currently working on ways to improve the cat intake and fostering system.

LANGUAGES

Python - expert
C++ - expert
Elixir - proficient
Ruby - proficient
Java - proficient

AWARDS

Search Innovation Challenge - 1st Place
THacks 2 - 1st Place Data Science
Microsoft Data Science Challenge - 1st Place
Microsoft Comp. Vision Challenge - 1st Place
Telus IOT Hackathon - 1st Place
RBC Next Innovator Challenge - 3st Place
RUHacks - 1st Place Category