

Ruslan Nikolaev

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Honors & Awards

- 2018 🏆 **1st place**, University of Navarra International Case Competition *Pamplona, Spain*
- 2017 🏆 **1st place**, Built an Amazon Go Store in 48 hours at Ryerson University Hackathon *Toronto, Canada*
- 2017 🏆 **1st place**, Built an intelligent meal curating application at Queen's University Hackathon *Kingston, Canada*
- 2017 🏆 **1st place**, Built a scroll feed shopping experience with Shopify at Decode Hackathon *Waterloo, Canada*

Education

University of Waterloo

BACHELOR OF COMPUTER SCIENCE

Sep. 2015 - Aug. 2020 (Expected)

Waterloo, Canada

Wilfrid Laurier University

BACHELOR OF BUSINESS ADMINISTRATION

Sep. 2015 - Aug. 2020 (Expected)

Waterloo, Canada

Professional Experience

🔗 WATonomous

PERCEPTION ENGINEER

Mar. 2018 - Present

Waterloo, Canada

- Building object detection and tracking using single-shot object detection; competing in SAE autonomous car competition

Computer-Vision

Neural Networks

Convolutional Neural Networks

Single Shot Detection

🔗 Shopify

DATA ENGINEERING INTERN

Jan. 2018 - May. 2018

Ottawa, Canada

- Analyzed data and built internal reports to understand consumer behavior on the platform using SQL and Python
- Built a dimensional model to aggregate data on daily platform usage improving query time by 20x
- Engineered features and built a customer maturity machine learning model to serve customized content and guide business decisions

Python

Machine Learning

PySpark

HDFS

Hadoop

🔗 Waterloo

SOFTWARE SYSTEMS LEAD

May. 2017 - May. 2018

Waterloo, Canada

- Responsible for managing over 30 software developers to create and build the embedded and software systems for a Hyperloop pod
- Wrote a research paper on the topic of Embedded-Systems in Hyperloop Pod describing the software design

Hyperloop

IoT

Embedded-Systems

Node.js

🔗 Adknown Inc.

FULL-STACK SOFTWARE ENGINEERING INTERN

Jan. 2017 - May. 2017

Guelph, Canada

- Developed time tracking Jira plugin by building a backend and APIs using PHP and SQL
- Developed a serverless web notification client utilizing AWS services such as Lambda and Dynamo to send large batches of customizable notifications

SQL

AWS

PHP

APIs

JavaScript

🔗 TIONIX

PYTHON SOFTWARE ENGINEERING INTERN

May. 2016 - Sep. 2016

Kazan, Russia

- Designed an auto-complete algorithm in Python to improve customer experience when controlling the cloud system through a command line
- Worked with open source projects such as PyMongo, Celery, OpenStack, Django, and Sphinx to implement an in-house cloud system solution

Python

Sphinx

Django

Personal Projects

🔗 Driver Face Detection

Driver Face tracking algorithm to ensure driver is paying attention to the road

🔗 Shooting Analytics

Analysis of US mass shootings developed using data from Kaggle

🔗 Drake Lyric Generator

Language Model built using LSTM recurring network design to generate Drake Lyrics

🔗 Snack Classifier

Solving problem of uneducated trips to the snack shelf with a computer vision inventory tracker

🔗 ML Utils

A set of convenience tools to speed up general ML model development pipeline

🔗 Wat Bot

University of Waterloo assistance bot integrated with campus API to provide relevant tips

Certifications

- 2018 🏆 **Certificate**, Studying in ConsenSys Blockchain Academy 2018' *ConsenSys*
- 2018 🏆 **Specialization**, Completed 5-course Specialization in Deep Learning taught by Andrew NG *Coursera*
- 2017 🏆 **Certificate**, Completed Machine Learning course offered online by Stanford University *Coursera*