JANE ILLARIONOVA

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HIGHLIGHTS

My greatest passion is learning; I love exploring, and sharing my findings with others.

Working on reducing foodwaste and its carbon footprint with swate.today.

Fascinated by real and artificial neurons applied to Natural Language Processing, Computer Vision, Reinforcement Learning and predictive analytics.

SKILLS

- C, C++
- Python
- Linux, Git, Bash
- C#, .NET

ACHIEVEMENTS

- **Microsoft** Scholar
- **RTC** fellow
- **1st Place** HackTPS
- **2 x1st Place Waterloo** EngHacks
- **MIT** Energy Hacks
- **Facebook/Udacity** AI scholar
- **PEO** Scholar
- **AWAF** international scholar

EXPERIENCE

SOFTWARE ENGINEERING INTERN • MICROSOFT   PRESENT

Decoupling the code and configuration deployment process by building a **shared library** integrated with **Azure Cloud Services** using **C# and .NET**

SOFTWARE ENGINEERING INTERN • IMC TRADING   SUMMER 2019

Developing high-performance architecture using advanced **C++, FPGA Control, and TCP Networking** to optimize trade execution

AI ENGINEER INTERN • RBC CAPITAL MARKETS   2019-2020

Using advanced **Python analytics** techniques for research and development of **Reinforcement Learning** trading algorithm currently being used in the production environment

DATA ENGINEER INTERN • RBC ROBOTIC PROCESS AUTOMATION   SUMMER 2018

Built a **semantic search** engine for an internal site **using Natural Language Processing** for information restructuring and topic-modeling

AUTONOMY & SOFTWARE DEVELOPER • UOFT SELF-DRIVING CAR   2016-2019

Leading development team of health-monitoring system to activate, test, and provide feedback on autonomous performance of hardware.
Built **Machine Learning** models for object-tracking and detection, winning 1st place internationally two consecutive years

NEURAL NETWORK ARCHITECT • BR(AI)N ARTIFICIAL INTELLIGENCE   2016-2019

Developed **Deep Convolutional Neural Networks** for the diagnosis of brain cancer, achieving a classification accuracy of 96%
Building **CUDA parallelizable Python** code for image recognition

EDUCATION

COMPUTER ENGINEERING • UNIVERSITY OF TORONTO • 2021

Specializing in **Software** with **Machine Learning** Minor

- **Dean's Honour List** – GPA 3.6, Dean's Merit Award, National Book Award, Engineering Society Award
- Coursework: Algorithms & Data Structures, Operating Systems

OTHER INTERESTS

- **Board of Directors** and keynote **speaker** at **A.I.S.C.** and **Toronto AI**
- **Canada Learning Code Mentor and Workshop lead**
- Featured: **SAS Women in Analytics** magazine & **Student of the Month**
- **Google Developer Student Club Lead**
- Toronto Chapter lead **Google Women TechMakers**