JANE ILLARIONOVA

HIGHLIGHTS

Lead developer and CNN architect, in brain cancer research project.

Software developer for UofT autonomous vehicle team.

Experience developing machine learning models for applications in Natural Language Processing, Computer Vision, Reinforcement Learning and predictive analytics.

SKILLS

- C, C++
- Python
- Linux, Git
- Bash
- Robot OS
- Verilog
- HTML/CSS

ACHIEVEMENTS

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

EXPERIENCE

SOFTWARE ENGINEERING INTERN • IMC TRADING • SUMMER - PRESENT

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

AI ENGINEER INTERN • RBC CAPITAL MARKETS • FEBRUARY - PRESENT

- 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
- Research, development, and end-to-end implementation of product, using advanced analytics techniques and tools for machine learning

AUTONOMY & SOFTWARE DEVELOPER • UOFT AUTODRIVE • 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 • PRESENT

- 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 • 2020

- Specializing in **Software** with **Machine Learning** Minor
- **Dean's Honour List** for all academic terms – GPA 3.6s, Dean's Merit Award, National Book Award, Engineering Society Award for **outstanding academic achievement and community involvement**
- 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**
- **President** of Skule Community Outreach (Engineering Society Charity)
- **Google Developer Student Club Lead**
- Toronto Chapter lead **Google Women TechMakerss**

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