

# Greg Price

Bilingual Software Engineer · Français · English · University of Ottawa · Class of 2023

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## Technical Skills

**Machine Learning** Pandas, TensorFlow, DQL, RL, OpenCV, CNN, NLP, Python, YOLO, Feature Optimization  
**Software Development** Python, Java, C++, OOP, ROS, Design, Agile, SQL, Azure, R, Web-dev

## Education

**Bachelor of Applied Science Software Engineering | September 2018 - December 2022 | University of Ottawa, Ottawa, Ontario**

- Merit Scholarship – awarded to students with grade average above 85%
- French Studies Bursary – awarded to students taking the majority of their courses in French
- Expected graduation in December 2022 – 3.9 GPA

## Work Experience

**Analyst | Enterprise Risk Services, MNP | April 2021 – August 2021**

- Audited and reviewed multiple projects related to IoT and IT infrastructure
- Co-authored "[The Original Bitcoin Protocol: What Is It and Why Does it Matter?](#)"
- Researched, collected, and reported on energy consumption of different blockchains namely BTC, BCH and BSV
- Managed several auditing projects in unison with contracts worth upwards of \$25,000
- Reviewed and analyzed code bases (in C++) of blockchain technologies such as the original Bitcoin Protocol and BSV

**Teaching Assistant | University of Ottawa | September 2020 – December 2021**

- Corrected, proctored, and designed exams, assignments, and labs for more than 150 students
- Taught laboratories (in French and in English) and provided help to students in the following classes: 4<sup>th</sup> year Intro to AI, 2<sup>nd</sup> year Intro to Software Engineering, 1<sup>st</sup> year Intro to Computing

**Machine Learning Engineering Student | Bauer Hockey | January 2020 – March 2020**

- Created a project pipeline for a machine learning hockey specific application
- Developed a custom video processing software using Python to label data for machine learning algorithms
- Collected, manipulated, and processed data collected from IMUs and video footage using Pandas and MATLAB
- Optimized different machine learning algorithms (SVMs were most promising and had the highest F<sub>1</sub> scores)

**IT Summer Student | CAE | May 2019 – August 2019**

- Provided IT support for all office employees
- Created/developed/deployed internal auction web solution using ASP.NET framework
- Helped manage the Microsoft SharePoint Farm by collecting and reporting on performance metrics to SharePoint Admin

## Projects

**Traffic Light AI | Capstone Graduation Project | January 2022 - Present**

- Developing a traffic light optimization system for intersections in the downtown core of Toronto likely using a deep Q-Learning approach
- Project is still in early development stage – more information can be found [here](#)

**Board Member | [Ottawa Autonomous Vehicles Group](#) | January 2021 - Present**

- Developed object detection system for our snowplow (lidar, stereo vision and AR)
- Finished second place in the annual CASPI Student Snow Plow Competition

**[Project X uOttawa](#) | August 2021 – February 2022**

- Conceptualized, modified, and developed a model to identify depression among users on Twitter with a multi-modal reinforcement learning approach in Python 3 using textual tweet data (NLP), profile imaging (CNN) and user relations (graph learning) under supervision of Dr. Branco

**[Formula uOttawa](#) | November 2018 – May 2020**

- Member of pit crew and steering wheel software implementation team
- Sought sponsors on behalf of the team (helped raise over \$6,000)

**Hackathons | February 2020 and February 2021**

- Developed a web-based solution to determine eligibility of various government grants
- Developed an android application for students to find lab partners in a similar fashion to Tinder using Java