Andrea Perera-Ortega

MSc Candidate, Developer, Designer

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WORK EXPERIENCE

Med-i Lab, Queen's University · Research Assistant

April 2020 - Present

- Researching unsupervised machine learning techniques to classify prostate cancer in ultrasound images.
- Previously I worked on detection of epileptic lesions in brain MRI scans with 90% accuracy.
- Developed a hands-on presentation on digital pathology and AI for a biomedical informatics course.
- Managing the lab's social media presence and Wordpress website.

Medical Device Startup* · Software Design Consultant

October 2021 - June 2022

- Led the re-design of the UI for the company's application using Adobe XD, Illustrator and Photoshop.
- Implemented and tested these designs using Python and Qt in an Agile environment. (*Under NDA)

School of Computing, Queen's University · Teaching Assistant

July 2020 - June 2022

- Mentored students, assisted in creating course materials, provided actionable feedback on assessments
- Intro to Computing Science I (Python course), Fundamentals of Software Development (C++ and Agile methodology course), Computational Biology, and Undergraduate Research Project.

Herban Studios · Founder

July 2021 - Present

- I created an e-commerce business on Shopify that specializes in plant decor.
- Made over 200 sales across North America in the first year.
- Amassed over 13K followers on TikTok in one month.

Scotiabank · Associate Product Owner (Velocity Program)

May 2019 - August 2019

- Wore many hats in the project management of an application to onboard small business clients.
- Conveyed stakeholder needs and translated them into granular technical product requirements.
- Tested product features alongside QA developers, keeping track of any other bugs that arose.
- Other responsibilities included assisting with UI/UX design, and presenting updates to stakeholders in weekly meetings.

Heart and Stroke Foundation· Website Content Developer

May 2017 - Sept 2017

- Updated, wrote, and published over 100 pages on the national website using HTML and enterprise CMS.
- Worked alongside the Content and Project Management teams to plan the releases, organization, and content of web pages.

EDUCATION

Queen's University · MSc in Computing (AI Focus)

September 2020 - Present

- cGPA: 4.3/4.3

Queen's University · BComp (Hons) in Biomedical Computation

September 2016 - April 2020

- Dean's Honour List (2017-2020)

TECHNICAL SKILLS

- **Python**: Tensorflow, Keras, scikit-learn, NumPy, pandas, seaborn
- **Machine learning**: clustering, autoencoders, neural networks, EDA, data preprocessing and visualization
- **HTML/CSS**: Bootstrap
- **MATLAB**
- **C++**: PyQt
- **SQL**: MySQL
- **Git**

RELEVANT COURSEWORK

- Data Mining
- Deep Learning
- Database Management
- Medical Imaging & Signal Processing
- Data Structures
- Algorithms

SKILLS

- Fluent in Spanish
- Quick learner
- Strong interpersonal skills
- Strong work ethic
- Public speaking

SCHOLARSHIPS & AWARDS

- **NSERC CGS-M Scholarship Recipient** (Sept 2021 - 2022)
- **Best Pitch Presentation** for my paper titled "Unsupervised Learning for Prostate Cancer Severity Classification" at the Imaging Network Ontario (ImNO) 2022 conference.
- **Best Pitch Presentation** for my paper titled "Machine Learning to Detect Brain Lesions in Focal Epilepsy" at the ImNO 2021 conference.
- **2018 Dunin-Deshpande Pitch Competition, $10K Award Winner** for an agricultural AI technology company I cofounded in 2018 called inField ID

PUBLICATIONS

- See full publications list on my Google Scholar page: *tinyurl.com/andrea-pubs*