# Dylan Labatt Randle

dylanrandle.github.io | LinkedIn | GitHub

## Summary

I am a highly skilled data scientist with over **4 years of experience** building **machine learning systems** for applications in **robotics**, **computer vision**, and **natural language processing**. My work has been **published** and **patented**, and I was invited to present it at both **MIT** and **Harvard**.

## Experience

**Senior Data Scientist**                                                    North Reading, MA, USA
*Amazon Robotics*                                                                *July 2020 – Present*

- Developed ML systems for **robotic item manipulation** (e.g. grasp learning, damage prediction, damage detection)
- Developed optimization algorithms for mobile robot **path planning**
- Responsible for performance improvements worth **+$100MM/year**
- Recipient of **Inventor Award**
- Paper **published** at internal conference ($\leq 5\%$ accepted)

**Data Scientist**                                                                Toronto, ON, Canada
*Hubdoc Inc*                                                                      *Feb 2017 – July 2018*

- Developed **LSTM-based NLP system** for extracting accounting information from financial documents
- Deployed to production with **99% precision** at **95% recall** while reducing extraction time by **99.99%**

## Education

**Harvard University**                                                            Cambridge, MA, USA
*Master of Science in Data Science (GPA: 4.0)*                                   *Aug 2018 – May 2020*

- Scholarship in Applied Computation, Distinction in Teaching

**University of California, Berkeley**                                            Berkeley, CA, USA
*Bachelor of Science in Industrial Engineering & Operations Research (GPA: 3.9)*   *Aug 2012 – May 2016*

- High Honors (*magna cum laude*), Frank Kraft Award, Phi Beta Kappa, Tau Beta Pi, Alpha Pi Mu

## Projects

**Physics-Informed Neural Networks**                                                        GitHub

- Developed **GAN** framework for unsupervised learning of solutions to differential equations
- Workshop paper published at **ICML 2022**

**ML Trading System**                                                                     Proprietary

- Developed **LDA-based NLP system** for trading US equities
- Deployed to production for **real-time trading**

**Generative AI for Human Faces**                                                           GitHub

- Developed **ResNet VAE** to generate human faces
- Code published to GitHub

## Technical Skills

**Languages**   :   Python, Javascript/Typescript
**Frameworks**  :   PyTorch, React Native
**Libraries**   :   Numpy, Pandas, Scipy
**Dev Tools**   :   AWS, Git, Firebase, Docker