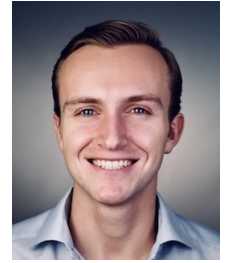


# Dylan Labatt Randle

[Website](#) • [LinkedIn](#) • [GitHub](#) • [Scholar](#)



## SUMMARY

Machine learning scientist and leader with 5+ years experience and a proven track record building and deploying AI systems for robotics, computer vision, and natural language processing.

## EXPERIENCE

### Senior Applied Scientist, Machine Learning

*Amazon Robotics*

North Reading, MA, USA

*Jul 2020 – Present*

- Led a team of scientists developing AI systems for robotic manipulation and path planning
- Delivered performance improvements of +35% and cost savings of \$10 million/year
- Named inventor on two patents

### Machine Learning Engineer

*Hubdoc*

Toronto, ON, Canada

*Feb 2017 – Jul 2018*

- First machine learning engineer at the startup company (acquired for \$70MM USD)
- Developed machine learning system for natural language processing of financial documents
- Deployed to production with 99% precision at 95% recall, while reducing extraction time by 99.99%

## EDUCATION

### Harvard University

*Master of Science in Data Science (GPA: 4.0)*

Cambridge, MA, USA

*Aug 2018 – May 2020*

- Recognized with Scholarship in Applied Computation and Distinction in Teaching
- Research and coursework focused on machine learning
- Thesis: "Unsupervised Neural Network Methods for Solving Differential Equations"

### University of California, Berkeley

*Bachelor of Science in Industrial Engineering & Operations Research (GPA: 3.9)*

Berkeley, CA, USA

*Aug 2012 – May 2016*

- Recognized with High Honors (*magna cum laude*) and Frank Kraft Award
- Inducted into Phi Beta Kappa, Tau Beta Pi, Alpha Pi Mu
- Coursework focused on statistics and optimization

## SAMPLE PROJECTS

- **Grasp Learning for Robotic Item Manipulation:** Developed ViT and PointNet models for learned grasp generation and ranking. Deployed to production with 36% reduction in grasp failures.
- **Computer Vision for Robotic Damage Detection:** Developed ResNet-based visual anomaly detection model for damage detection. Achieved +25% improvement in performance in offline testing.
- **Simulation-Based Optimization for Robotic Path Planning:** Developed simulation-based optimizer for path planning on fleets of thousands of mobile robots. Achieved +10% improvement in robotic system throughput. Paper published at internal conference.
- **Physics-Informed Neural Networks for Solving Differential Equations:** Developed generative adversarial networks for solving differential equations. Achieved orders of magnitude reduction in solution error over classical approaches. Paper published at ICML 2022 workshop.

## TECHNICAL SKILLS

- **Languages:** Python, C++, Javascript/Typescript, SQL
- **Libraries:** PyTorch, Keras/Tensorflow, OpenCV, Open3D, Pandas, NumPy, SciPy, Scikit-Learn, React
- **Platforms:** AWS, Docker, Firebase, Linux, MacOS