

**DYLAN LABATT RANDLE**  
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## EDUCATION

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| <b>Harvard University</b><br><i>M.S. in Data Science</i><br>• Relevant coursework: Advanced Data Science, Stochastic Methods for Optimization, Modeling and Inference, Systems Development for Computational Science, Computational Science Seminar  | Cambridge, MA<br>Expected May 2020 |
| <b>University of California, Berkeley</b><br><i>B.S. in Industrial Engineering &amp; Operations Research</i> , GPA: 3.9/4.0 (High Honors)<br>• Relevant coursework: Statistics and Machine Learning, Probability, Forecasting, Mathematical Programming, Nonlinear and Discrete Optimization, Stochastic Processes | Berkeley, CA<br>May 2016           |
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## RELEVANT EXPERIENCE

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| <b>Institute for Applied Computational Science, Harvard University</b><br><i>Research Assistant</i><br>• Researching physics-aware machine learning methods for turbulence modeling, supervised by Pavlos Protopapas and David Sondak  | Cambridge, MA<br>Nov 2018 - Present     |
| <b>Hubdoc</b><br><i>Data Scientist &amp; Machine Learning Engineer</i><br>• Developed and deployed deep learning system (LSTM & CNN) for information extraction and text classification from financial documents. Saved \$1MM+ per year by decreasing labor costs and service times by orders of magnitude from previously human-based system. Grew machine learning team from 0 to 5 people. Used Python, Tensorflow, Keras, AWS, PostgreSQL, Ansible<br>• Built data visualizations for company intranet using Javascript, Python, C3<br>• Presented results and recommendations to management team; delivered introductory machine learning lecture to audience of 60+ people | Toronto, Canada<br>Feb 2017 - July 2018 |
| <b>BMO Capital Markets</b><br><i>Financial Products Summer Analyst</i><br>• Conducted analysis of various debt products (swaps, swaptions, ABS, MBS). Wrote algorithm in C# to analyze relationship between delta-hedging frequency and returns for Canadian swaptions<br>• Reviewed pitches and compiled summaries of daily trading activity  | Toronto, Canada<br>Summer 2014          |
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## RELEVANT PROJECTS

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| <b>Twitter Troll Detection:</b> <a href="https://dylanrandle.github.io/troll_classification">https://dylanrandle.github.io/troll_classification</a><br>• Achieved 96% accuracy in classifying tweets as trolls, using a dataset of Twitter handles from the Internet Research Agency, an organization indicted by prosecutors for meddling in the 2016 U.S. presidential election |  |
| <b>Automatic Differentiation:</b> <a href="https://github.com/dylanrandle/autograd">https://github.com/dylanrandle/autograd</a><br>• Built a Python package implementing automatic differentiation (forward and reverse mode) in NumPy. Includes gradient descent and Adam optimizers, with extensive documentation.  |  |
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## LEADERSHIP EXPERIENCE

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| <b>Taylor Statten Camps</b><br><i>Long Trip Counselor</i><br>• Led 50-day and 36-day wilderness canoe trips through Northern Ontario and Minnesota. Planned route and food drops, navigated 2500km+ of rugged wilderness, and ensured safety of numerous groups of 7 teenage boys | Algonquin Park, Canada<br>Summer 2015/2016 |
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## SKILLS

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**Computer:** Proficient in Python (numpy, pandas, scipy, scikit-learn, pytorch, tensorflow, pymc3), SQL, Git; familiar with Javascript, C++, MATLAB, LaTeX