

Lin Gao

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Highlights

- Data scientist with 5 years of experience in Python and various machine learning packages such as Scikit-learn, Keras, H2O etc. Specialized in link analysis and graph algorithms.
- Expert in Python and Neo4j, proficient in SQL, R, and C++, working knowledge of Hadoop and Spark family tools, practical experience with cloud computing systems including GCP, Azure and AWS.

Experience

10/2018 - now	Senior Data Scientist , Manulife Financial. <ul style="list-style-type: none">• Engaged different business units and promoted the use of AI, robotics and cloud infrastructures.• Lead development of an in-house anti-money laundering (AML) system utilizing cutting-edge graph algorithms and machine learning algorithms.• Lead a project to alleviate retention risk for life policies in different countries.• Lead a project to optimize marketing distribution channels for Canadian businesses.
06/2018 - 10/2018	Machine Learning Specialist , Royal Dutch Shell. Developed reinforcement learning algorithms suggesting wellbore stratigraphic position based on field and simulation data.
07/2017 - 09/2017	Data Scientist (internship), Apple Inc. Designed a new feature engineering tool in Python to handle categorical features with large cardinality at Apple's anti-fraud group. Tested in different lines of business including AppleCare, Apple Online Store, etc.
09/2016 - 06/2017	Quantitative Analyst , Bluewater Technologies Inc. Improved and developed new statistical arbitrage trading strategies.

Education

2011 - 2018	PhD in Aerospace Engineering, University of Toronto, Canada. Research topic: high performance algorithms for large scale stochastic linear and nonlinear PDEs/ODEs, with applications in aerospace engineering.
2008 - 2010	M.Sc in Aeronautics and Space Engineering, Cranfield University, UK. Courses: Sensors and Data Fusion, Image Processing and Remote Sensing, Advanced Databases, Internet Technologies, etc.
2004 - 2008	B.Sc in Theoretical Physics, Nanjing University, China.

Certificates

2020	Neo4j Certified Professional (License No. 16957016), Neo4j.
2016	Machine Learning (License No. AXLMM7GJ66NT), Coursera. Introductory online course by <i>Andrew Ng</i> on machine learning, datamining, and statistical pattern recognition.
2017	Teradata SQL for Business Users , Teradata Education Network.
2017	Data Science , SciNet High Performance Computing Consortium, University of Toronto.