

STEVEN LEUNG, Master of Data Science, PMP

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HIGHLIGHTS OF PROFILE

- 19 months of experience as Wildlife Application Specialist at Canadian Wildlife Service (CWS), Environment and Climate Change Canada (ECCC).
- Classification:
 - Substantively PC-02
 - Qualified in a partially-assessed pool for EC-03 (Data Scientist/Data Engineer/Data Analyst) with Public Health Agency of Canada (PHAC)
 - Qualified in a fully-assessed pool for IT-02 (IT Analyst) with Shared Services Canada (SSC)
- Security: Reliability
- 19 months of experience in data transformation/analysis and machine learning in Python and SQL
- 10+ years of experience as project management/technical consultancy
- 4.5+ years of data & analytics client-facing consultancy experience
- Master of Data Science, UBC
- Project Management Professional (PMP) certified since 2017

RELEVANT PROFESSIONAL EXPERIENCE

Wildlife Application Specialist (PC-02), CWS of ECCC, June 2023-Present

- Spearhead the development of key materials, enhancing the application modernization strategy as requested by management and mandated by the Project Management Framework.
- Deliver on-time release for the NRT project by providing Python and SQL coding support, optimizing testing of PDF reports and data pipeline development.
- Ensure timely releases (100% success rate) for the SAR-DMTS by leading UATs, collaborating with SMEs across departments, and resolving critical issues through bug fixes or workarounds, contributing to the administration of the SARA (Species at risk public registry).

Project Consultant of A.I. / Head of Sales, ClusterTech Limited, 2016 – 2021

- Drove the full customer lifecycle consultancy for data science projects, delivering solutions from pre-sales to delivery, resulting in enhanced client satisfaction.
- Managed P&L of Sales with a focus on HPC and AI/ML/Analytics technologies, surpassing AI & Analytics targets in FY 2018-19 through strategic market segmentation and partnership development.
- Crafted complex RFP responses in collaboration with the data science team and external partners, securing lucrative contracts.

Regional Account Manager (Asia Pacific), The Collinson Group, 2015 – 2016

- Oversaw project implementation and product/market readiness for new deals, including digital lounge programs, maintaining 100% SLA compliance since Dec 2015 through proactive account servicing.

Business Solutions Consultant, Business Markets, SmarTone Mobile Communications Limited, 2013 – 2015

- Led productization and implementation projects for B2B products and services, transitioning from initial qualification to market launch, covering areas such as cloud solutions and mobile app development.
- Developed and implemented an ICT Training Program, boosting the department's ICT solution selling skills.
- Conducted monthly ICT business reviews with senior management, utilizing tools like Cognos and MS Excel to inform strategic decisions.

TECHNICAL SKILLS

- Languages: Python (PyTorch, Pandas, Numpy, Geopandas), R, SQL, MongoDB, Stan
- Microsoft 365 including MS Excel (VLOOKUP, Pivot Tables), Powerpoint, Word, Power BI and Access
- APIs: REST APIs, JSON and XML
- Project Management tools: Azure DevOps, GitHub, Trello, Microsoft Project
- Data visualization: Altair, ggplot2, Dash, Plotly, Heroku, Shiny, Kepler.gl, MS Excel, Tableau, PowerBI
- Platforms/Tools: Azure DevOps, AWS (S3, EMR, EC2), FME (Safe Software), docker, git, GitHub Actions (e.g. CI/CD), GNU make, PostgreSQL, MongoDB, Spark, Heroku, conda, VS Code, Jupyter, RStudio
- Machine learning: classification, regression, linear models, decision tree, random forest, SVM, k-NN, clustering, natural language processing, ensemble methods, deep learning with neural networks (e.g. CNNs, Autoencoders, GANs), spatial and temporal models (e.g. RNNs, LSTMs, transformers (GPT))
- Statistics & Probability: hypothesis testing, statistical inference, bootstrapping, simulations, experiment design (e.g. A/B testing)

PUBLIC PRESENTATIONS

- ClusterTech Demonstrates How NLP Can Facilitate in Financial Industry, June 2020
- Using AI to Thrive in Challenging Times - ClusterTech X Pure Storage X NVIDIA Webinar, November 2020

RELEVANT EDUCATION

- Master of Data Science, University of British Columbia September 2021 -- June 2022
 - GPA = 93.3% (A+ equivalent)
 - Relevant courses: Algorithms & Data Structures, Databases, Spatial & Time Series Analysis, Data Visualization, Automated Workflows, Machine Learning, NLP, Ethics (including EDI principles & bias prevention), Cloud Computing, Capstone Project
- B.Sc. in Computer Science and Engineering, University of California, Los Angeles

DATA SCIENCE PROJECTS

- Capstone Project (May-Jun 2022): "Detection and Mitigation of Data Drift and Model Decay" for Goldspot Discoveries Corp.
 - Engineered an adaptable Python framework that standardizes the monitoring and detection of data drift and model decay across various datasets and models, resulting in a scalable solution for ongoing data integrity.
 - Utilized advanced tools and techniques such as PyTorch, Sci-kit Learn, Autoencoders, PCA, confidence distribution analysis, image property evaluation, and statistical tests to ensure robust performance.
- Cloud Deployment of Machine Learning Model (Mar-Apr 2022): Deploying an API on AWS to predict daily rainfall in Sydney, Australia.
 - Orchestrated the deployment of a machine learning model on AWS, leveraging EC2, S3, and EMR to process a large public dataset, enabling accurate daily rainfall predictions.
- DoggoDash (Feb-Mar 2022): An interactive dashboard for recommending dogs to potential owners.
 - Created an engaging web application that recommends suitable dog breeds to prospective owners by analyzing user preferences, hosted on Heroku with dynamic visualizations powered by Plotly.
- EDAhelper (Jan-Feb 2022): Open-source software packages in Python and R for simplifying Exploratory Data Analysis.
 - Developed open-source software packages that transform complex Exploratory Data Analysis into one-line codes, streamlining the data exploration process for analysts.
- Olympic Medals (Nov-Dec 2021): A reproducible data science report on the impact of age on winning medals
 - Conducted a comprehensive study using reproducible data science techniques to test the hypothesis that age is a factor in winning Olympic medals, yielding insights into the correlation between age and athletic performance.

VOLUNTEERING

- Mentor for MDS students, UBC, November 2023-April 2024
 - Guided and supported two MDS students, providing strategic advice and fostering professional development to prepare them for successful careers post-graduation in June 2024.
- Workshop on Project Management for MDS students, UBC, April 2024
 - Delivered a workshop on project management best practices, sharing insights on effective project planning, execution, and monitoring to enhance students' understanding of project management principles.

OTHER EDUCATION

- Leading for Success 10-Day Consortium Program, Executive Education, Hong Kong University of Science and Technology 2015

SPECIALIZED TRAINING / CERTIFICATIONS

- Certified in Cybersecurity (CC) by ISC2 since December 2023
- Azure Fundamentals (AZ-900) since May 2023
- Project Management Professional (PMP) certified (Number: 2116816) since 2017
- Introduction to Marketing (University of Pennsylvania), 2015
- Effective Use of Microsoft Excel for Business Analysis, 2015
- Architecting on AWS, Amazon Web Services, 2015

LANGUAGES

- Fluent in Chinese (Mandarin & Cantonese)
- Professionally Proficient in written Japanese (JLPT N1)