STEVEN LEUNG, Master of Data Science, PMP

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HIGHLIGHTS OF PROFILE

- 10 months of experience as Wildlife Application Specialist at Canadian Wildlife Service (CWS), Environment and Climate Change Canada (ECCC).
- Classification:
  - Currently 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
- 10 years of experience as a technical consultant/project manager (with various companies)
- 4.5+ years of data & analytics client-facing consultancy experience
- Master of Data Science, UBC
- Programming/Query Languages -- Python, SQL, R
- 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.
- Streamline data migration processes by crafting robust data extraction and transformation scripts, facilitating application consolidation efforts.
- 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).

- Delivered on-time release for the NRT project in Dec 2023 by providing Python and SQL coding support, optimizing testing of PDF reports and data pipeline development.

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 by 209% 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
  - CGPA = 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

PROJECTS AT UBC

- 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)