HENRY FUNG

1817 Kilbourne Pl. NW ■ Washington DC, United States 20010 ■ hfung4@jhu.edu ■ +1 202-655-6630

EDUCATION

Johns Hopkins University
School of Advanced International Studies
Master of Arts, International Economics and Quantitative Methods **May 2020**

- Johns Hopkins University Dean's Scholarship (2018-2020)
- Paul H. Nitze Fellowship (2019-2020)

McGill University
Bachelor of Arts (Honors), Economics, Minor in Mathematics **May 2018**

- Graduated with First Class Honors
- Cherry Price in Economics (2018)

Carleton University
Master of Applied Science, Mechanical Engineering **January 2011**

- Thesis: Modelling, Simulation, and Control of a Bipedal Walking Robot

Bachelor of Engineering, Aerospace **May 2008**

- Project: Modelling Human Abdomen Palpation for a Patient Simulator

EXPERIENCE

LogApps LLC **Falls Church, Virginia**
Data Analytics Specialist **May 2019- Present**

- Developed a text classifier using NLTK and Gensim to predict the total functional points in a software project from text data in the Software Requirement Specification (SRS) document.
- Performed data cleaning and built text embeddings (word2Vec and doc2Vec) to detect semantically similar requirements in the SRS.

Employment and Social Development Canada, **Montreal, Canada**
Government of Canada
Operations Research Analyst **June 2018- August 2018**

- Performed data wrangling, exploratory analysis, and feature engineering (in R) on employee workload/performance panel data (3 million data points), resulting in structured and reusable data for further analysis
- Derived operational insights from regression analysis on employee data, and presented analyses (using Tableau) and recommendations for process improvement to managers and non-technical team members

Institute for Health and Social Policy, **Montreal, Canada**
McGill University
Research Assistant **May 2017- December 2017**

- Designed, developed, and deployed an online survey web application (in Python, Java Script, and MySQL) to investigate the relative effects of income, job satisfaction, and social relationships on life satisfaction using anchoring vignettes
- Performed exploratory analysis on 120 pilot survey responses (in STATA) to develop three quality control measures that reduced unengaging respondents by 30%

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TRU Simulation and Training, **Montreal, Canada**
Textron Inc.
Avionics Systems Engineer **June 2015- August 2016**

- Developed a software model (C++/MATLAB) for the Airbus 350 Global Navigation System and implemented an innovative unit testing method to reduce software/simulation issues of the model by more than 50%
- Collaborated with test pilots on the design and implementation of an automated testing process for flight simulators to reduce the validation phase of projects by more than 80 hours
- Organized and led discussions with aircraft equipment vendors to resolve 5 critical avionics interface issues within the project deadline

CAE Inc. **Montreal, Canada**
Autopilot Software Specialist **May 2011- May 2015**

- Designed, deployed and tested the simulated Autopilot model (in C/C++) of Boeing Flight Simulators (B787 and B747-8)
- Served as a field representative in 5 different countries to build relationship with clients and resolve software/simulation issues, resulting in the qualification of 10 flight simulators
- Formulated realistic work plans and led constructive meetings with engineering teams of 5-10 members to facilitate collaboration on complex simulation issues and secure customer acceptance of flight simulators

ADDITIONAL INFORMATION

Languages: English (Fluent); Chinese (Fluent); French (Basic)
Technical Skills: Python, R, MySQL, git, Tableau, MATLAB, STATA, C/C++