

**EDUCATION****Georgia Institute of Technology****2017 – 2019 (part-time)**

- Master's Degree in Computer Science – Machine Learning Specialization
- Top 10 Computer Science program in US
- Hands-on experience wrangling messy data, training ML models and creating intuitive visualizations

**University of Oxford****2009 – 2012**

- Bachelor's Degree in Physics (Hon)
- Top 2 Physics program in UK
- Solid foundation in problem solving, scientific modeling, linear algebra, Bayesian statistics etc.

**PROGRAMMING SKILLS AND PROJECTS****GitHub:** <https://github.com/bigbagy> **Hands on experience with Linux (Ubuntu and CentOS)****Python (scikit-learn, Pandas, NumPy, NLTK, OpenCV, Keras):**

- Trained NLP models to gain insight of unstructured document files via text feature engineering, clustering and visualization, using POS tokenizer, stemming/lemmatization, TF-IDF, Word2Vec, PCA, K-means (NLTK, scikit-learn)
- Automated financial data and portfolio statistics reporting, back-tested investment portfolio Sharpe ratio (Pandas, NumPy)
- Implemented image processing algorithms including content aware seams carving, FFT, SIFT, RANSAC (Open CV)

**R (dplyr, ggplot2):**

- Cleaned data and trained linear models, applied dimension reduction and regularization to reduce overfitting by 20%
- Built logistic regression models from mathematical first principal (not using existing libraries), trained classifier models to recognize images with over 90% accuracy
- Created intuitive visualization of geospatial datasets, time series data and gained statistical insights (ggplot2)

**MySQL, PHP:** implemented backend of an online auction website, designed database schema, wrote SQL queries to fulfill business functionalities including inventory management, auction/bidding system, review/rating and account management**C:** Socket programming and multi-threaded web server**WORK EXPERIENCE****Singapore, Project Senior Consultant (Physical Acoustics and Audio)****Shen Milsom & Wilke LLC****2013 – Present**

- Working as a project ambassador and subject matter expert, successfully delivered 13 world class performance venues, research and commercial projects in Hong Kong, Indonesia, Thailand, Malaysia, Vietnam and Singapore with cutting edge acoustic designs, received high client feedback ratings
- Managed complex communication channels with clients, user groups, designers, vendors and government regulatory authorities to effectively resolve technical challenges and synchronize project development
- Key team player with excellent interpersonal skills, established and maintained strong work and personal relationship with clients, colleagues and vendors
- Managed business operations such as receiving and replying RFPs and EOIs, making business forecasts, preparing project proposals, negotiating contract scope of work and fees
- Assisted sales activities in pre-sale workshops, consultations and casual trainings

**Hong Kong, Project Engineer, Shen Milsom & Wilke LLC****2013 Jan – Jul**

- Conducted independent research and state-of-the-art acoustic simulations for high-end music performance & commercial venues, liaised with suppliers/vendors to validate design solutions. Frequently attended on-site workshops/surveys in various overseas project locations to coordinate design details

**OTHER DETAILS****Language Skills:** Chinese Mandarin (native), English (full professional), Chinese Cantonese (basic)**Visa status:** Singapore Permanent Residence.**Notice Period:** One Month