

EDUCATION

Georgia Institute of Technology

2017 – 2019 (part-time)

- Master's Degree in Computer Science – Machine Learning Specialization
- Top 10 Computer Science program in the US
- Hands-on experience in applied machine learning, data analytics and visualization

University of Oxford

2009 – 2012

- Bachelor's Degree in Physics
- Top 2 Physics program in the UK
- Solid foundation in scientific modelling, linear algebra, statistics, calculus etc.

DATA SCIENCE SKILLS AND PROJECTS

GitHub Portfolio: <https://github.com/bigbagy>

Python (NLTK, scikit-learn, Pandas, NumPy, OpenCV, SciPy):

- Trained NLP models to gain insight of unstructured document files via auto text feature extraction, clustering and visualization, using techniques such as POS tokens, stemming, TF-IDF, Word2Vec, PCA, K-means (NLTK, scikit-learn)
- Processed financial data and automated portfolio statistics report, back-tested portfolio Sharpe ratio (Pandas and NumPy)
- Implemented image processing algorithms including kernel convolution, FFT, SIFT, RANSAC in computer vision coursework (Open CV)

R (dplyr, ggplot2):

- Trained regression models to predict movie box office success, reduced overfitting error by 10% via regularization
- Trained classifier models to recognize hand-written images with over 90% accuracy
- Created intuitive visualization of geospatial datasets (with map overlay), time series and statistical insights

MySQL, PHP: designed business logic and database schema for an online auction website, wrote SQL queries to fulfill website functionalities including inventory management, auction bidding, item & user review, account management etc.

WORK EXPERIENCE

Singapore, Project Management 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