Chi-Yun Chen

chiyun.chen001@gmail.com **|** +1 (202) 868 0865 **|** Washington, DC, US
cychen116.github.io **|** linkedin.com/in/chi-yun-chen-0093712

EDUCATION

MS, Data Analytics | The George Washington University   Washington DC, US
- Machine Learning, Statistics, Big Data, Engineering Economics, Algorithms, etc.   **Expected Dec 2022**
- Best ML/AI approach prize in 2021 GW Hackathon founded by CirrusLabs.

BS, Food Science and Biotechnology | National Chung Hsing University   Taichung, Taiwan
- Specialization: Food Microbiology, Biotechnology, and Biochemistry   **Jan 2016**

PROFESSIONAL EXPERIENCE

Project Assistant | IT Admiration, The George Washington University (GWU)   Remote, US
IT admiration is the chief provider of technology infrastructure, services, and applications at GWU.   **Feb 2022 – present**
- Collected and maintained all faculty and staff computer status data verification and validation.
- Analyzed and evaluated the data, meanwhile generating a report with insight.

Contractor | iChemLabs, LLC   Remote, US
iChemLabs is a scientific software company that creates affordable and easy-to-use chemistry software.   **Jul 2020 – Sep 2021**
- Evaluated the chemical compound data and wrote the testing code in the Java environment.

Pharmaceutical Research Assistant | National Yang Ming University (NYMU)   Taipei, Taiwan
NYMU is one of Taiwan's top research institutions in medical and biotechnology.   **Jul 2018 – Aug 2019**
- Conducted analyses on diverse research datasets on the topic of nanoparticles in cancer therapy.
- Analyzed the scientific literature to extract needed data.
- Developed research methods to leverage scientific data in custom-made quantitative frameworks.

Product Manager and Data Analyst | Innovation Open House (IOH)   Taipei, Taiwan
IOH is the biggest education-intro platform in Taiwan, covering 80%+ of high school students and the   **Mar 2016 – Jul 2017**
service across HK, Malaysia, and other Southeast Asia countries.
- Analyzed products data, developed the improvement plan, and built an automatic performance evaluation system, which reduced 20% turnaround time.
- Systematized data storage by building NAS and creating a database of the company.

Marketing Data Analyst | Innovation Open House (IOH)   Taipei, Taiwan
- Maintained the FB Fans Page and website and achieved a 56% increase in fans base.   **Jan 2016 – Jul 2017**
- Analyzed website performance data and executed SEO, which increased sessions by 74%.
- Initiated and designed marketing projects and increased the engagement of the FB Fan Page by 30%.

SKILLS

Programming Languages: Python (NumPy, pandas, SciPy, matplotlib, seaborn, TensorFlow, PyTorch, scikit-learn, etc.), R (Dplyr, ggplot2, Knitr, RMarkdown, Shiny, etc.), Java, SQL, HTML

Data Science & Miscellaneous Technologies
- Data Science Pipeline: Cleaning, Wrangling, Exploratory Data Analysis, Modeling, Interpretation
- Visualization: Tableau, QGIS
- Statistics Analysis, Time Series, A/B Testing, Hypothesis Testing, Experimental Design, Excel, GA, SEO
- Natural Language Processing: Text Processing, Topic Modeling

Big Data & Database Management: SQL, MongoDB, Spark, HDFS, MLaaS (AWS, Google Cloud ML)

Language: English, Chinese, German

PROJECTS

Sign Language Translator by Machine Learning Algorithm   *bit.ly/SL_trans*
- Conducted motion capture and computer vision recognition.
- Adopted unsupervised and semi-supervised machine learning algorithm to train the model.

Omao Biodegradable Disposable Cutlery Marketing Analysis   *bit.ly/omao_analysis*
- Conducted conjoint questions survey and analysis through utility model.
- Applied multinomial logit model to simulate the market and predict the market share of the product.

Analysis COVID-19 Topic on Facebook/Twitter in LDA Evaluation Metrics by PCA   *bit.ly/LDA_dan_21*
- Analyzed social media posts by Natural Language Processing.
- Adopted MALLET toolkit to conduct topic modeling and Latent Dirichlet Allocation (LDA)