John Gilbert

johngilbert2571@gmail.com   **jgilbert-dev.com**

Education

M.S., Computer Science and Information Engineering, *National Taiwan University*   2019–2021
B.S., Chemistry, Minors in Mathematics & Economics, *University of Vermont*   2012–2016

Experience

Research Assistant, *National Taiwan University*   2019–2020
  - Trained Machine Learning Models in Python & R to Make Predictions from Medical Data

Software Developer, *Freelance*   2018–2019
  - Developed Backend Modules & Frontend Templates with CRUD Functionality using Django
  - Implemented Payment Methods with Django-Paypal API & Automated Email Responses for Forms

Quality Control Chemist, *Mylan*   2017–2018
  - Prepared Solutions for Analytical Testing by HPLC and GC & Performed Inventory Assessment
  - Followed Standard Operating Procedures (SOPs), Observed Regulations & Safety Practices (GxP)

Research Analyst, *Converseon, Inc.*   2016
  - Conducted Data Cleaning & Analysis on Chinese Consumer Media for Johnson & Johnson

Skills

Programming: Python (*Tensorflow, Pytorch, Pandas, Numpy, Sklearn, Numba, Mypy, Django*),
                  Javascript / Typescript (*React, Express, p5.js*),
                  C, HTML, CSS (*Sass*)

Utilities: AWS, GCP, VS Code, Vim, Jupyter, MS Office
OS: Mac OS X, Windows XP, Ubuntu Linux

Languages: English (*Native*), Mandarin (*Fluent*), Spanish (*Advanced*)
Chemistry: NMR, FT-IR, GC-MS, LC-MS, ICP-OES, UV-Vis, Chromatography

Projects (https://github.com/johngilbert2000)

  - Sentiment140 Analysis: Trained Fastai & TF2 NLP models on 1.6 million tweets   2019
  - Bioinformatics Paper Implementation: Used TF2 to classify bacteriocin AA sequences 2019
  - Nested Lookahead Optimizer: A custom Pytorch optimizer based on Lookahead   2020
  - User-Space Scheduler: An example scheduler in C involving custom Linux syscalls   2020
  - Portfolio Website: Website made with React, Express, Sass, and Typescript   2020

Awards

Woodworth Prize in Chemistry: Grant Issued for Scientific Research   2015