

John Gilbert

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jg-apps.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