

# John Gilbert

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## 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 Tabular 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*), SQL

**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

## Awards

Woodworth Prize in Chemistry: Grant Issued for Scientific Research 2015  
National Security Language Initiative (NSLI-Y) Study Abroad Scholarship 2011