**Eugene Wang** Brooklyn, NY | (347) 495 3931 | yjwang.y56@gmail.com | <u>www.linkedin.com/in/y56</u>

SKILLS	
• Programming Languages: Java, Python, Go, C/C++, MATLAB, Bash, MIPS assembly, ARM assembly, SO	QL, Javascript
• Tools: Git, Maven, Archiva, Docker, PySpark, Hadoop, OpenCV, pandas, sklearn, seaborn, TensorFlow, K	eras
EDUCATION	
New York University, New York, NY	
Master of Science, Computer Engineering, GPA: 3.8	May 2021
National Taiwan University, Taipei, Taiwan	
Master of Science, Chemistry, GPA: 3.8, Thesis: Quantum Correction on Bath Time-Correlation Functions	Feb 2018
Bachelor of Science, Chemistry, Minor in Chemical Engineering, GPA: 3.3	Jun 2014
Osaka University, Osaka, Japan	
Exchange Program, Japanese Language and Culture, GPA: 3.5, JLPT N1	Aug 2016
PROJECTS	
Self-Driving Car, New York, NY	Jan 2020
• Used OpenCV on Python to implement road lane detection through camera calibration, edge detection, an	d Hough
transform	
<ul> <li>Detected and recognized traffic signs by CNN on TensorFlow with 93% accuracy</li> </ul>	
Assembler Emulator, Computing Systems Architecture Course Project, New York, NY	Dec 2019
<ul> <li>Implemented a MIPS 5-stage pipeline with stalling, forwarding, and branch prediction in C++</li> </ul>	
Built branch predictor by bitwise control and achieved maximum theoretical memory efficiency	
Tetris vs Snake, OOP Course Project, Taipei, Taiwan	Jun 2019
https://github.com/y56/Java-Tetris-vs-Snake-Game	
• Combined two classical games into a 2-player game by Java Swing and AWT; each game result was public	shed
online automatically	
• Won the second price for gameplay design and demo among 50 participants	
EXPERIENCE	
Data Scientist Intern, Shopee, Taipei, Taiwan	Jul - Aug 2020
• Developed a dynamic pricing AI system using <b>DDPG</b> algorithm and <b>PyTorch</b> to reduce manpower to 20%	and raise
gross merchandise volume by 10%	·
• Extracted and cleaned data by efficient SQL and pandas from raw transaction data into hourly profiles to t	rain Al
• Created backend functions with <b>Python</b> on GCP to automatically update prices and databases according to	user queries
<ul> <li>Conducted customer segmentation research to establish a marketing strategy and raised conversion rate by</li> <li>Duilt Coople Shoets to be to ensuel website date and externate business and vaise to Coople Ann Sovint</li> </ul>	0%
• Built Google Sneets tools to crawl website data and automate business analysis by Google App Script	Mar Jun 2020
• Aggisted the feaulty and students with administrative and technical difficulties and acted as a ligison betwee	Mai - Juli 2020
<ul> <li>Assisted the faculty and students with administrative and technical difficulties and acted as a fialson between</li> <li>Contributed to development of strategies for the program provide recommendations and deliver weakly provide recommendations.</li> </ul>	en the two
• Contributed to development of strategies for the program, provide recommendations and deriver weekly pro-	Ion Aug 2010
https://github.com/opengov/detaty/ https://detaopener.tw	Jall - Aug 2019
• Crawled analyzed and visualized 3k+ freedom of information (FOI) requests by <b>Coogle Anne Script</b> and	Python
( <i>requests RegutifulSoup mathlotlib</i> ) to design FOI strategies for 20 NGOs and create request templates for them	
• Won gov and CIVICUS Grant Competition by the FOI request strategies (gov: 16k USD, CIVICUS: 10k USD)	
<ul> <li>Resolved ambiguity in official responses to FOI requests by providing templates and won Taiwan Presiden</li> </ul>	tial
Hackathon Top 5/132: the templates were officially adopted by authorities concerned	
Research Assistant, National Tainei University of Technology, Geomatics Lab, Tainei Taiwan	May - Jul 2019
https://gitlab.com/h2beaver	
• Wrote test cases and unit tests to validate 20GB GIS data by <b>JUnit</b> and reduced the manpower to 10%	
• Managed dependencies and introduced version control to GIS database by Maven, Archiva, and GitLab (	CI/CD
to enable automatic merge and trace-back	
<i>R&amp;D Intern,</i> <b>JNC Technology Co., LTD,</b> Tainan, Taiwan	Mar - Apr 2018
• Designed experimental apparatus using SolidWorks and established calibration procedures for air quality s	sensors
• Built the first air cleaner prototype and evaluated its performance; the design was adopted for products	
Valuation Hughan Walfang Foundation Kaphaing Taiwan	
<i>volunieer,</i> <b>Huashan wehare Foundation,</b> Kaonstung, Tatwan Api 2	018 - Mar 2019
<ul> <li>Helped solitary elderly people with household chores, provided regular medical care, and promoted home s</li> </ul>	018 - Mar 2019 afety